



The
NEMES
NEW ENGLAND MODEL ENGINEERING SOCIETY INC.

Gazette

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May Meeting

Due to the coronavirus pandemic, the May meeting will be held on line. The meeting is necessary for the nominations for officers, who will be elected in June.

In addition to nominations, John Bottoms will give a presentation on, "3D Printing for Machinists".

Contents

Date/Time of May Meeting	1
Club Business	2
President's Corner	2
Details on May Meeting	3
From the Editor's Desk	4
Quote of the week	4
Free Stuff	4
New Tool	4
Recap of March Meeting	4
Future NEMES Meetings	5
Your Editor's Favorite YouTube sites	5
Future Events	6



Club Business

Rich Baker

Our by-laws require that we select a slate of officers at the May meeting for election at the June meeting.

See Rich Baker for the NEMES merchandise.



President's Corner Dan Eyring

AN APPEAL TO SUPPORT THE FUTURE OF NEMES

Hello everyone. I've been absent from the Gazette in recent months, focusing on finding speakers and getting a good turnout for the February show.

It's been both fun and discouraging. Discouraging, because the responsibilities of the President have grown substantially over my almost three year tenor as a result of what seems to be a general lack of interest on the part of NEMES members in helping run the Club.

Many other past NEMES officers have experienced the same issue, of having to serve beyond the two years specified in the Club Bylaws.

Witness Dick Boucher's long six year stint as President, Victor Kozakevich's two year service as President followed by five years as Vice President,

Rich Baker's six years service as Treasurer, Bob Timmerman's three year stint as Gazette Editor, James Sheffler's three year service as NEMES Webmaster, and finally Todd Cahill's astonishing twelve years service as Club Secretary. If it seems that the same names keep appearing on the Gazette masthead year after year, it's because they were/are the standup folks willing to do what it takes to keep the Club going.

Well, the standup guys are getting tired. And the Club needs new blood in its roster of Club Officers if NEMES is going to persevere and prosper. And there a couple of issues that are urgently in need of attention.

First, congratulations to Rich Baker for his recent election to the Massachusetts Republican State Committee. This is a full time job, in addition to the full time job he already has that brings home the bacon. He will be resigning as Treasurer at the end of June, if not before.

Second, beyond being the NEMES President, I am also wearing several hats supporting the Charles River Museum. I took on the job of finding speakers when Bob Timmerman gave it up in order to take over as Gazette Editor and no one else was willing to do the job. And, while in past years, managing the February Show was the sole job of an appointed NEMES member, that task has fallen to the President in recent years also. Not to mention trying to figure out how to maintain and increase NEMES membership as the current roster gets older every year. So I plan on resigning the Office at the end of June.

Now, I get why probably few people would be willing to take on the job as NEMES President. There is always something that needs doing and it always falls to the President to take care of it. Maybe I'm just not very good at asking for help, but in any event I strongly suggest that the job be split up to be more manageable and to improve the functioning of the Club.

So I am here proposing the following:

A **NEMES Leadership Committee** to be chaired by the President and supported by three, elected sub-chairs for
Programs (finds speakers),

Model Show Manager (does, with help, everything needed to prepare for and run the annual February Show), and **Membership Solicitation** (responsible for reaching out to potential new Club members).

The Leadership Committee would meet every couple of months or so, probably by phone or video conference, and would report periodically to the membership at the monthly meeting

So in summary I am looking for self nominations or recommended nominations for the Leadership committee and its sub chairs, Vice President, Treasurer, Secretary, Editor and Webmaster. If you are already holding one of these positions and want to continue, that 's great! Please let me know. If you are not currently actively engaged in running NEMES, but would like to be involved, that's wonderful too! Please let me know.

Stay safe and stay inside in your Shop!

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Details of May Meeting

NEMES May 7th Meeting Invitation

Our meeting next Thursday evening will be held on-line as a video/audio conference.

Topics for the meeting will be gathering nominations for new officer elections at the June meeting and a presentation by John Bottoms on the topics of "3D Printing for Machinists".

Below you find an Invitation to the Thursday meeting.

If you want to join the video/audio version of the meeting, click on the HTTPS web link. You will be prompted to download and install a small ZOOM client application. Hopefully this will be a one time thing, you should not need to do this for the next

meeting. If you are NOT prompted to do the app download, you can find it here:

<https://zoom.us/download>

If you are using a MSWindow system, the download shortcut for the install app will be shown on your screen at the lower left. When the install app has completed you should click on it to install the Zoom app. You will be asked "Do you want to run this file?" Click RUN for permission to install the app and the install should complete.

Audio Ony

If you only want to dial into the meeting by phone and skip the video, the Invitation includes a number of phone numbers to call in on. You will probably want to click on the "Find you local phone number" link so you don't end up paying for long distance:

<https://zoom.us/j/abelqAr7c>

[ed note: The above link seems to be a general link to the Zoom website.]When you dial in, you will be asked to enter the password for the meeting. Do so and you will be connected to the meeting.

See (or hear) you there!

- Here is the invitation -

Daniel Eyring is inviting you to a scheduled Zoom meeting.

Topic: May 7th 2020 Virtual NEMES Meeting Invitation

Time: May 7, 2020 07:00 PM Eastern Time (US and Canada)

Join Zoom Meeting

<https://zoom.us/j/6229563584?pwd=eHVmSmdBWF5ZDRQUVZBWHZJV0NtZz09>

Meeting ID: 622 956 3584

Password: 072169

One tap mobile

+13126266799,,6229563584#,,1#,072169# US (Chicago)

+19292056099,,6229563584#,,1#,072169# US (New York)

Dial by your location

+1 312 626 6799 US (Chicago)

+1 929 205 6099 US (New York)
+1 301 715 8592 US (Germantown)
+1 346 248 7799 US (Houston)
+1 669 900 6833 US (San Jose)
+1 253 215 8782 US (Tacoma)

Meeting ID: 622 956 3584

Password: 072169

Find your local number:

<https://zoom.us/j/abelgAr7c>



From the
Editor's Desk

Bob
Timmerman

We will be nominating officers at the May meeting. In June Dan Eyring will be retiring as President, and Rich Baker will be retiring as Treasurer. We have to nominate a Vice President and a Secretary as well, I do not know if Victor or Todd will be willing to stay on. Dan has suggested we add three new officers, as you can read in his President's column.

NEMES is *your* club. To paraphrase Dan, the stand-up guys want to sit down. If you are not willing to put in the time to serve as officers, **the club will cease to exist**. Some months ago, we had a discussion about abolishing the club. There were a number of vociferous objectors to abolishing NEMES. Hopefully those objectors will step up and volunteer to continue to lead NEMES.

I am willing to continue to serve as Gazette Editor. It is not that difficult a job, and by now I have learned some of the idiosyncrasies of Microsoft Word, and am more or less able to use it to put out a somewhat good-looking Gazette, even though I am writing most of it myself. What would be helpful would be

for members to submit articles to the Gazette. At most of the meetings I hear club members talk about their projects. Why not spread your expertise around by putting together an article for the Gazette. I would even help with the writing, if necessary.

Quote of the Week

Sears is trying to boost their appliance repair parts business. They are now offering some free videos offering advice on how to diagnose problems with a number of appliances. The caption on Gmail advertising these videos is:

"Be master of your machines by learning to fix them—Diagnosing is 90% of the repair (*the rest is muscling off bolts in tight spaces*)". [emphasis added]

Free Stuff

My HP 6700 printer failed last week. I have a full set of spare print cartridges that I kept in inventory that are now useless. If anybody has a HP printer that takes 932 black and 933 color cartridges, you may have mine. We will have to work out how to get them to you.

New Tool

Some months ago, I saw this tool at a local big box store, the kind that uses orange paint as a trademark. It is a Crescent Tool Co X2 compound plier. The advantage of it is that with the compound action, you do not have to open the handles very far to get the jaws to open. While it may reduce the leverage somewhat, it allows the pliers to get into tight places. The pliers went into my toolbox, but I was reminded I had them this week, when I had to fish out some papers that had dropped behind the microwave, blocking airflow. Since there was not enough room for me to get my hand to the back of the microwave, these pliers came in handy.

They are available in straight nose, Crescent model PSX200C, and with a bent nose, Crescent model PSX 201C. You may have to order the bent nose ones, I am not sure they are available in the big box store.



Recap of March Meeting

The March meeting was the last meeting NEMES had, as the April meeting was cancelled by the shutdown for Coronavirus. The meeting was a talk by Professor David Hardt of MIT, and was jointly with the Museum of Industry and Innovation, on:

What is Industry 4.0 and How Did We Get There?

The evolution of technology, the workplace, and the nature of educational needs supporting the current phase of the American Industrial Revolution.

Ask any manufacturing company today about what the future holds, and likely the answer will be some form of "Industry 4.0". But what do these labels mean and what about 3.0, 2.0, and 1.0. Does manufacturing progress in such big steps?

By looking at the long sweep of manufacturing history we see both a continuous evolution of technology, and a set of "principles of manufacturing". These principles, which are drawn from the unique requirements of manufacturing, are universal and unchanging. This implies that Industry 4.0 is simply a moment in time along this path, and one that continues to advance manufacturing to an ever more complex technical system, but one that is still based on these principles.

MIT Professor David Hardt

Professor Hardt is an expert in system dynamics, control and manufacturing processes. He is the Ralph E and Eloise F Cross Professor of Mechanical Engineering at MIT

Future NEMES Meetings

As of this writing (April 25) there are no NEMES meetings planned past the May meeting, and the June Election of officers. May will take place remotely, June may take place remotely, depending on how quickly things reopen. If people want interesting meetings, the Club will have to have a Program Chair, and members should suggest topics.

Your Editor's Favorite YouTube Sites

I admit I watch too much YouTube, and do not spend enough time in my shop. Having said that, I have a number of favorite sites.

- **TubalCain aka MrPete222** A lot of use watch Lyle Peterson's channel. There is an index to his videos on the NEMES website. I have learned a lot from him.
- **Abom79** This is a channel run by a third generation machinist, Adam Booth. As I understand it, he worked for a modest size machine shop, then went out on his own several years ago, from a shop in Pensacola, Florida. He has a well-equipped shop, including a large shaper, and a horizontal mill. He does welding as well as machining. One of the most recent additions to his shop is a "Flex-Arm" power tapper, that allows positioning the power unit over about a 6 foot radius, and has sufficient power to drive taps up to about $\frac{3}{4}$ ". Now Adam is big guy, but in the first video where he showed it, he said that it was better than the old way of swinging a tap wrench. He also collects vises, I think his collection includes Wilton, Columbian, Reed, and Starrett. He has one or two videos per week.
- **Keith Rucker** Keith is an amateur machinist and woodworker, with a good enough day job as an agronomist to finance

a rather large free standing shop building with a large collection of machine tools, most of which are on the old side of commercial machines. He also is involved with the Vintage Machinery.com website, which has a lot of data on old machine tools. Keith has several videos per week, ranging from work he is doing in his shop, to work he does as a volunteer at the Georgia Museum of Agriculture.

- **Oxtool** This is the website of Tom Lipton, who has written two books on machining in the job shop environment. Most of the work he describes here is work he does in his own personal shop—his day job is Engineering Superintendent at [Lawrence] Berkley Lab. He usually does not show routine job shop projects, but shows more exotic stuff. He did show some projects from work when he was called upon to assist with installation of new equipment up on a mountain in California.
- **Turn Wright Machine Works** [Keith Fenner]. Keith runs a machine shop on Cape Cod. He used to post a large number of rather detailed [read: largely unedited] videos about his varied shop projects, but has had to relocate his shop, which has greatly reduced video output.
- **Joe Pieczynski** Joe runs a job shop and product development company on the outskirts of Austin, Texas. He is more of a teacher than filming what goes on in his shop. I have found a number of his videos to be quite useful.
- **Welding Tips and Tricks** [Jody Collier]. Jody is a welder with a varied background, having gone to welding school, worked on nuclear and fossil power plants and paper mills, going to work for Delta Airlines as a welding instructor, then working in their welding lab. He now produces welding videos and sells welding accessories through his web store. His enthusiasm for welding and good instruction make me want to get my welder going again.
- **Subtool** [Suburban Tool] In this site, hosted by owner Don Bailey, they demonstrate a number of machining

techniques that are not normally covered elsewhere.

Engels Coach Shop [Dave Engels]. Dave is a master craftsman who runs an old time coach and wheelwright shop in Joliet, Montana, in the middle of the western “wide-open-spaces”. Among other projects, he built a full size replica of the three wagon set that hauled borax out of Death Valley. He builds new wheels, and builds entire wagons and carriages, doing all the wood working and iron working. He has an eclectic shop, with an old tablesaw he sometimes uses, a planer, and a large, old bandsaw that seems to be his primary wood cutting tool. He has a special machine for mortising wheel hubs and felloes. He has a fully equipped blacksmith shop, sometimes using a power hammer, and sometimes forging by hand. He usually uses one of his arc welders to join steel. Dave has a nice, offhand delivery, which, combined with his expertise, makes him a pleasure to watch. He usually releases one video per week on Friday afternoons.

Future Events

This is the list of events that appeared in the March Gazette. Many of them are likely to have been re-scheduled. The list is included to give people a starting point to determine which events are still happening, which have been cancelled, and which have been re-scheduled.

April 2020

May 2020

2 - 3 Connecticut Antique Machinery Spring Power Up, 31 Kent Cornwall Rd., 1 mile north of Kent on Rt. 7, Contact: John Pawloski 860-927-0050

2 - 3 Zagray Spring Gas-Up & Swap Meet-Gas Up, Zagray Farm Museum, 544 Amston

Rd., Route 85 north from Colchester, 1-1/2 miles on right, Contact: Arthur Chester 860-982-5158

3 New Hampshire Power of the Past, Rt.
113, Dunstable, MA,
<https://www.farmcollectorshowdirectory.com/new-hampshire-power-of-the-past-dunstable-show/>

3 Antique Truck Club Show, Yankee Candle Corporate Headquarters, Yankee Candle Way, South Deerfield, MA, Contact: Craig 413-834-1677,
<https://www.newenglandautoshow.com/event/ma-deerfield-annual-antique-truck-show-2/>

8 - 9 Rough & Tumble Spring Steam Up, Kinzer, PA
<https://roughandtumble.org/viewreference/39/eventdetails>

16 Scantic Valley Tractor & Machinery Show, Vernon CT <https://www.svaec.com/>

16 - 17 Blue Mountain Antique Gas, Steam Engine Assn. Swap/Flea Market, Jacktown Grove, 1229 Richmond Road, Bangor, PA
<https://www.jacktown.org/>

23 – 24 Bernardston Gas Engine Show & Flea Market, Pratt Field, 219 South Rd, Bernardston, MA

June, 2019

6 - 7 Granite State Spring Show - JR
Bristols, 80 Witches Spring Rd. Hollis NH

6 - 7 Whately Engine Museum Show, 33
Christian Lane, Whately, MA