



TOOLS & TECHNOLOGY ANNUAL REPORT 2014



American Precision Museum... Ingenuity in manufacturing technology, Past, Present, Future

Join *The Tool Revolution*

At our site in the 1840s, a new system of manufacturing crystalized. It would be called “The American System.” Here a group of ingenious mechanics won a contract to make 10,000 rifles for the U.S. Army—all with interchangeable parts. They created a center for innovation, doing some of the best, high-tech work of the day.

Join us when we open May 23 to see the new exhibit that tells this important story. Learn about Richard Lawrence, the gunsmith, who arrived in Windsor at age 21—an early adopter of machinery that turned gunmaking from a hand craft into an industrial process. Frederick Howe, the machine designer, arrived in Windsor at age 25. He designed advanced barrel drilling, rifling, and milling machines. Henry David Stone learned pattern making and drafting at a young age and developed the turret lathe, creating enormous efficiencies in screw production. After their pioneering work together here, these three young men went on to influence several generations of machine builders who would then turn America into the industrial powerhouse of the 20th century.

New Learning Lab

If you come on a week-day you just might catch students engaged in a learning lab soon to be outfitted thanks to Hypertherm Hope Foundation. Teachers may choose one or two new pre-engineering activities when their students visit. In *Simple Machines*, students experiment with six simple machines and how they combine into compound machines. Then students are tasked with figuring out how simple machines increase the mechanical advantage of the machines on exhibit. In *Gears, Belts, and Pulleys* students experiment with ways to transfer energy. They then explore how the nearby brook, the building, and the machines all worked together to produce goods. The learning labs are designed to provide students a foundation to understand the mechanical world before they explore the exhibits so they may better grasp the truly revolutionary nature of what happened here in the past.

Today’s manufacturing world is again

undergoing a technological revolution. You or your company can celebrate this innovative spirit seen in both past and present by contributing to our exhibit and its education programs.

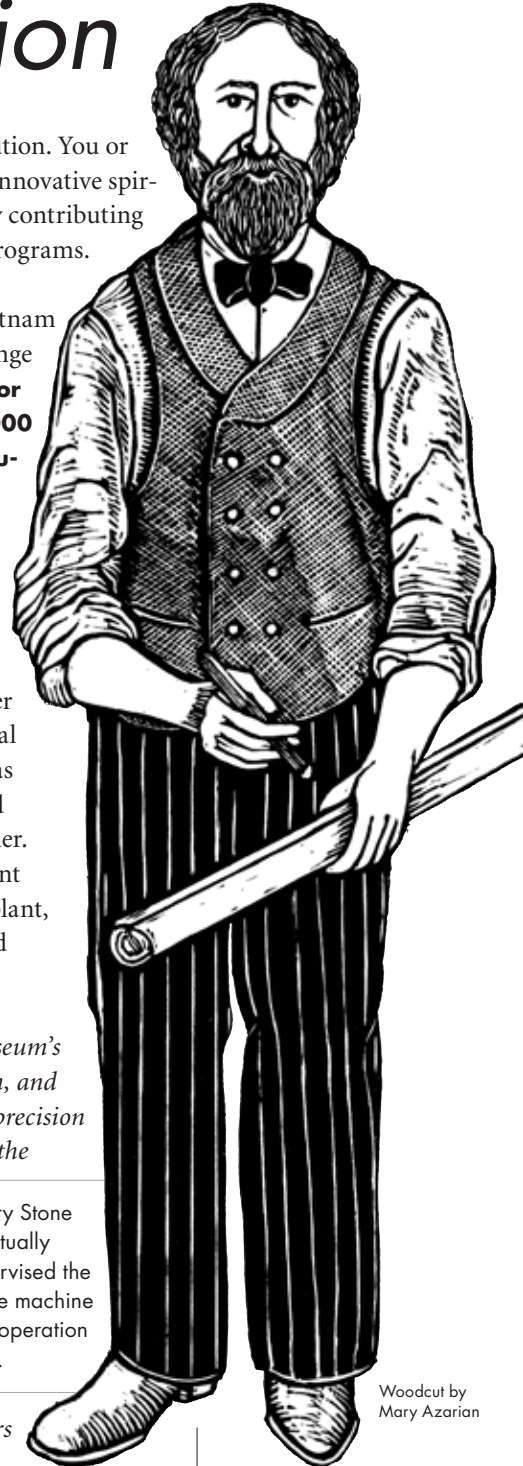
Join the Challenge!

Friends Tom and Barbara Putnam of Keene NH have issued a challenge pledge. **They will match dollar for dollar all new gifts up to \$20,000 supporting this 2015 19th-century exhibit and its 20th-century sequel. New companies or individuals, who have never before supported the museum, please step forward!**

Tom retired as Chairman of Markem Corporation in 2006 after 40 years of managing all functional areas of the company. Markem was founded in 1911 in Boston by Fred A. Putnam, Tom’s great grandfather. Markem machines are used to print variable information, on line, in plant, on a wide variety of consumer and industrial products.

Tom says: *My wife and I are making this gift to support the museum’s program of preservation, education, and outreach. We feel that the story of precision manufacturing, and its impact on the world is a highly valuable part of our history. It is a story full of creativity, ingenuity, and inspiration that is best told through the machinery and people who made it happen. We hope that this gift will inspire others to support it so the exhibit will be mounted according to plan.*

“This is the best kind of gift”, says Ann Lawless, Executive Director. “With this pledge, Tom and Barbara are doubling the impact of their gift, and challenging our staff, trustees and all our donors and members to bring in the new supporters we need. Thank you Tom and Barbara!” ■



Henry Stone eventually supervised the entire machine tool operation here.

Woodcut by Mary Azarian

American Precision Museum
196 Main Street
PO Box 679
Windsor VT 05089
802.674.5781
www.americanprecision.org
info@americanprecision.org

Calendar of Events 2015

EXHIBITS

The Tool Revolution tells the story of how ingenious mechanics here in the 1840s forged an industrial America by creating one of the best gun-making operations in the world. They created a center of innovation, doing some of the best, high-tech work of the day.

First Light Studios



Detail, Phoenix Drill Press

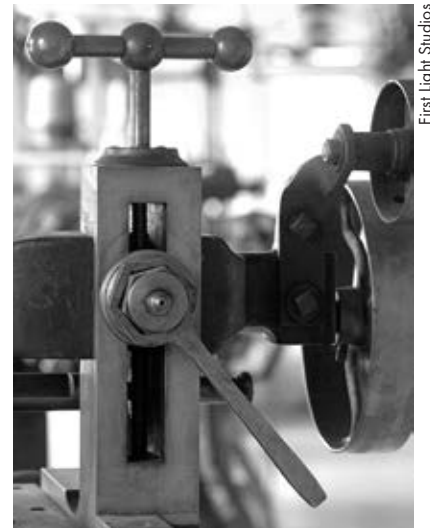
Arming the Union This site played a critical role in outfitting the Union Army during the Civil War. The majority of the 1.5 million rifles made for the war were made using machinery designed and produced here. Learn about the workers, the weapons and machines that made those weapons, and how the precision tool industry began to serve as the backbone of American industrial and military power.

Waterwheel and Millwork Drawings explain how a massive waterwheel in the basement of this brick factory building diverted water from the Mill Brook, and using a complex system of gears, shafts and pulleys powered machines throughout the building.

PROGRAMS

Friday June 5
5:30 – 7:30 pm
Opening Reception of
The Tool Revolution

Sunday July 12
1:00 pm
Family Maker Day: Simple Machines
Explore simple machines, find simple machines hidden inside the historic machines on the exhibit floor, and use your ingenuity to design your own machine.



First Light Studios

Detail, Gay, Silver & Co. Milling Machine, N Chelmsford MA, 1840

BEHIND THE SCENES TOURS

Sunday July 12
Sunday August 23
Saturday September 26

2:00 pm and 3:00 pm
Behind the Scenes Tours: Yankee Ingenuity

Tour the second floor storage to learn about our building and the collections stored there. 12 individuals/tour \$10.00 each



This 1850 linear dividing engine was used by Brown & Sharpe to cut the graduations on vernier calipers and machinist's rules. It is the first of its kind.



Stay up to date!

Sign up for monthly e-news at our website. We never share our lists!

Sunday July 26

2:00 pm

Highlights Tour with Carrie Brown

Explore the exhibit as curator Brown shares the story of the Tool Revolution and the men behind the machines.



Woodcut by Mary Azarian

Frederick Howe's innovations in metal-shaping technology helped make mass production possible.



First Light Studios

Sunday August 9

3:00 pm

Vermont and the Union Victory

Howard Coffin will talk about the end of the Civil War, focusing on Vermont's role leading up to the decisive attack at Petersburg, the 13th Amendment, and Vermont's overall contribution to the War.

Sunday August 23

1:00 pm

Family Maker Day: Break it-Make it

Put on your safety glasses, grab a screwdriver, and take apart old machines. See how they work, scavenge parts, and use your ingenuity to make something new.



Saturday September 26

10:00 am – 5:00 pm

Smithsonian Magazine Museum Day

Free admission at participating museums all across the country with the Smithsonian Day pass, obtainable online or in the Smithsonian magazine.



Saturday October 24

9:00 am – 4:00 pm

16th Annual Model Engineering Show & Maker Space, Windsor Recreation Center and the museum

Visit with New England's finest model engineers, attend workshops and watch live demonstrations.

Admission to both: \$10 for adults, \$5 for students



Admission

Members	free
Adults	\$8
Students	\$5
Kids under 6	free
Family	\$20
Admission by Donation on SUNDAYS	
Special Group Rates: Call for details	

Hours

Open daily 10 am - 5 pm,
Memorial Day weekend
through October.

★ Blue Star Museums

Blue Star Museums is a partnership among the National Endowment for the Arts, Blue Star Families, Joining Forces, MetLife Foundation and museums across the country. From Memorial Day—Labor Day we offer free admission to all active duty, National Guard and Reserve military personnel and up to five family members.

CHAIR'S MESSAGE

Headed in the Right Direction

Thanks to outgoing Chair Sean Kersey for his leadership implementing the good guidance of the Board of Advisors and revitalizing our mission. Staff and Trustees have worked hard to put mission into action with new activities and programs. It is very important that we continue our outreach to the public and most particularly young people.

Our regional workforce development program partnership touched 200 students from six schools across two states who toured Hypertherm, Timken, Whelen, North Hartland Tool and Chroma. More is planned for 2015. Paid student interns again wowed visitors in our Working Machine Shop. Workshops for kids, school groups and family days provided learning opportunities for up-and-coming young engineers to share their knowledge at the new Makerspace at the Model Engineering Show.

As do most museums APM depends heavily on charitable giving to meet our mission. We are expanding efforts to encourage support from corporations involved in precision manufacturing and innovation. APM was founded by Ed Battison to preserve the artifacts that show the history of invention in precision machine production that laid the foundation for the wonderful variety of tools and technology in place today. APM is a first rate way to give the public access to this important piece of American history. Please join us in strengthening these educational initiatives.

My goal as Chair is to enhance this effort through staff and Board collaboration. If you'd like to get more involved, we are seeking new Board candidates. We welcome all your advice and help to keep us moving forward.

Eric Gilbertson
Chair

Mission

To capture the imaginations of young and old with the spirit of innovation, problem solving and design, as demonstrated through the dynamic story of the machines and people which form the foundation and future of the manufacturing industry in America.

Irene Recovery

Three agonizing years after tropical storm Irene hit in August 2011, this is now a fast moving project! Stay in touch through e-news and our website.

FINANCIALS

Condensed Balance Sheets*

for the years ended April 30, 2014 and April 30, 2013

	2014	2013
ASSETS		
Cash and equivalents	\$ 20,045	\$ 16,838
Grants receivable	30,001	30,001
Other current assets	13,210	12,585
Property and equipment, net of depreciation	677,539	732,487
Investments	1,370,162	1,293,140
TOTAL ASSETS	\$ 2,110,957	\$ 2,085,051
LIABILITIES AND NET ASSETS		
Current liabilities	18,271	18,716
Unrestricted net assets	963,550	1,069,848
Temporarily restricted net assets	396,949	264,300
Permanently restricted net assets	732,187	732,187
Total Net Assets	\$ 2,092,686	\$ 2,066,335
TOTAL LIABILITIES AND NET ASSETS	\$ 2,110,957	\$ 2,085,051

Condensed Statement of Activities and Change in Net Assets

for the years ended April 30, 2014 and April 30, 2013

	2014	2013
REVENUE		
Donations, bequests, grants	\$ 198,304	\$ 229,125
Admissions	25,297	27,284
Memberships	61,610	52,775
Investment income	36,358	45,887
Unrealized gain (loss) on investments	87,155	64,623
Other income, net	11,252	10,193
TOTAL REVENUE	\$ 419,976	\$ 429,887
EXPENSES		
Salaries and benefits	195,160	252,321
Depreciation	56,698	85,416
Occupancy, insurance & maintenance	36,255	40,571
Office and publication costs	13,766	12,246
Professional services	41,714	40,724
Contracted services	9,835	12,358
Other expenses	40,197	96,476
TOTAL EXPENSES	\$ 393,625	\$ 540,112
REVENUE LESS EXPENSES EQUALS CHANGE IN NET ASSETS	\$ 26,351	\$ (110,225)

*Complete financial statements with accompanying notes and opinions are available at the museum office.

2014 Report on Giving

Thank you to our many contributors for all they do to support the museum. Every gift we receive is important. Your contributions come in many ways – membership, annual and special purpose gifts, gifts in kind and those made in honor or in memory of a loved one. We also thank our volunteers who give time and effort to make things happen. No matter how you support us, you make a difference.

Special thanks are due to corporate supporters and industry friends. Brian Frederick has been a creative advocate and team builder, honoring the memory of James N. Farley, the late CEO of **Speedfam**. **Gardner Business Media** provided ads in *Modern Machine Shop*. **Association for Manufacturing Technology, Haas Automation, Morris Group** and **INDEX** led with ideas and opportunities to raise visibility at industry meetings. Mike Cayley Sr. at **Midaco**, has invited friends and colleagues to join. We are very appreciative of our loyal members **Heidenhain, Task Force Tips, MacLean-Fogg, Royal Products, C Thorrez Industries, Moore Tool**, and we salute new members **EB Manufacturing, Campbell Grinder**, and **Abbot Workholding Products**.

ANNUAL AND SPECIAL PURPOSE GIFTS

January 1 - December 31, 2014

Robbins & Lawrence Society

(\$2,500 and up)

Mark and Michele Aldrich
Battleboro Development
Credit Corp
Farley Family Charitable
Foundation
Jack and Dorothy Byrne
Foundation
Douglas M. Loudon
Anonymous
Midaco Corporation
Old Stones Foundation
Jane Osgood and Ted Hilles
Rick Roesch
Eric and Margaret Rothchild

Mill Brook Society

(\$1000 - \$2,499)

Building Enclosure Associates
Stephen F. Christy
Cone Automatic Machine
Company
Mascoma Savings Bank
Anthony and Susan Morris
Michael Newbold
Preservation Trust of
Vermont
Merritt Roe Smith
Robert Van Etten Jacobs
Vermont Antique Automobile
Society
Wilkie Brothers Foundation

Precision Valley Society

(\$500 - \$999)

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Bryant Chucking Grinder
Charitable Foundation
Couch Family Foundation

Rolf Diamant
Clark Griffiths
James N. Heald II
D. Sean Kersey
Ken Kranzusch
L. S. Starrett Company
Seymour Lehrer
Charles Leni
Bill Lynn
William C. Martin
Robert A. Moeser
Frederick G. Novy III
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Donald S. Whitney

Edwin Battison Society

(\$250 - \$499)

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(\$100 - \$249)

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Make a Lasting Impact

Join the Museum's Legacy Society

Is the museum already in your estate plans? Please let us know so that we can thank you!

A **charitable bequest**, with the museum as a beneficiary, is easy to put in place and can be made with cash, securities, or real estate.

"I give to the American Precision Museum, Inc., Windsor, Vermont, _____ dollars (\$_____), or _____ percent (____%) of my residuary estate, to be used for the benefit of the American Precision Museum, Inc. as the Trustees thereof may direct."

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We encourage you to bring any mistakes or omissions to our attention so that we may correct our records accordingly. Thank you.



American Precision Museum
 196 Main Street
 PO Box 679
 Windsor VT 05089
 802.674.5781
 www.americanprecision.org
 info@americanprecision.org

In Memoriam

Nancy B Hoggson

Starting in 2005, Nancy brought professionalism, practicality and depth to our fundraising and communications efforts. Her determination, teamwork and joyful collegiality are missed by all.

First Light Studios



Nancy at the Gilman 4-in-1 combination machine.

Wayne R Moore

Wayne was president and CEO of Moore Special Tool Company, Bridgeport CT, founded by his father in 1924. Wayne authored "Foundations of Mechanical Accuracy", a classic reference on precision engineering that was translated into seven languages. We salute his many years of leadership on our Board of Trustees.

Michael Riviezzo

A long-time volunteer from Bedford NH, Mike passed away after a courageous struggle with ALS. A talented machinist, Mike led the rebuilding of the Jones & Lamson flat turret lathe and engineered the souvenir stamped gear we make in the working machine shop. Mike loved machines and his work touched our staff, volunteers, and countless visitors. ■



196 Main Street
PO Box 679
Windsor VT 05089

The American Precision Museum is open daily
10 am - 5 pm,
Memorial Day weekend
through October.

Non Profit Org
US Postage
PAID
White River Jct., VT
Permit No. 86

Volunteer of the Year

Vincent Moeykens began volunteering in winter 2014 with our first after school series for 9-12 year olds, Tinkering with Electricity. He helped design the workshops and quickly became an indispensable mentor. Throughout the spring he helped design more workshops and even created an instructional YouTube video for a summer family maker day on telegraphs. During summer 2014 we offered a week-long 3D printing program for teens. Vince was a key instructor, quickly coming up with design prompts for the participants and troubleshooting technical issues. He also helped with Tinkering workshops at local libraries during the summer.

In 2015 Vince again stepped up to help lead our second after school series, Tinkering with Magnets. APM teamed up with Historic Windsor and



Vince Moeykens with young tinkers

a Windsor High School team to enter a 3D historic architecture competition. Vince not only joined the team, but also spent time after school making sure that APM's 3D printer was ready to make test prints of the buildings. Our team won first place! Vince is a 9th grader at Windsor High School and serves as Cadet Commander, Civil Air Patrol NER-VT-007 Catamount Composite Squadron. Thank you Vince! ■