



Vol. 29, No. 1

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

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TOOLS & TECHNOLOGY

AMERICAN PRECISION MUSEUM • SUMMER 2011

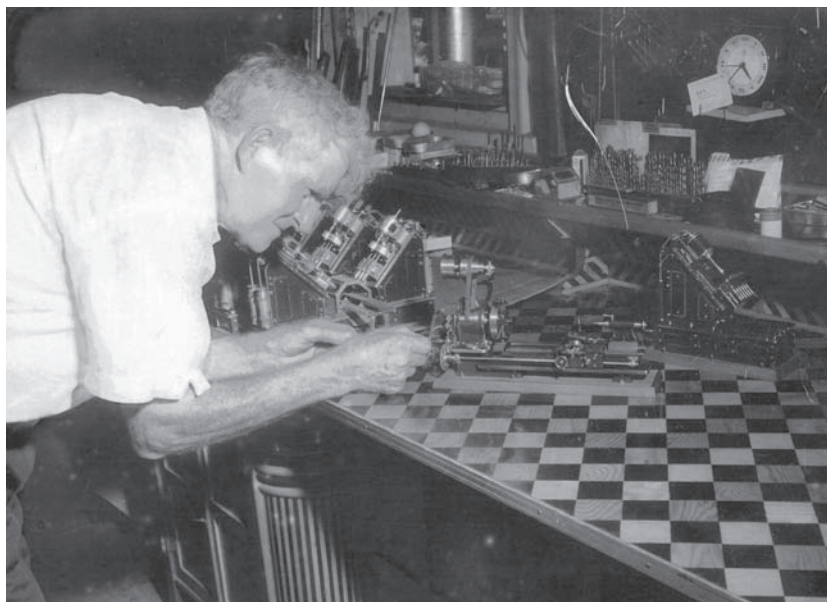
The Miniatures of John Aschauer, Master Craftsman

Every year visitors enthusiastically tell us how much they enjoy the two miniature working machine shops by John Aschauer. These have been on display since they were given to the museum in 1990 by the National Machine Tool Builders Association, now the Association for Manufacturing Technology (AMT), the trade organization for the machine tool industry. Thanks to a recent gift of eleven more beautifully crafted Aschauer models from AMT, this year the museum will be exhibiting its entire permanent Aschauer collection.

John Aschauer was born in 1896 in Sauerlack, Germany. At the age of 12, he began his apprenticeship at Alois Stocker Maschinenfabrick in Pfaffenhofen, Germany and finished his training three years later with the highest of recommendations. At the age of 14, he began his first modeling project, which was a replica of the double-boiler steam power plant used to drive the line shafts that powered the machinery at Alois Stocker. Constructed on the window sill of his mother's kitchen, this model took him four years to complete. Aschauer emigrated in 1927 and had a long career at Ex-Cell-O in Michigan. Following WWII, he returned to his family home in Germany and found the disassembled steam plant in the attic. Shipping it back to Michigan, he carefully restored it, and the museum acquired the steam plant in 1990 from his daughter, Hilda Aschauer Kelsay.

After retiring from Ex-Cell-O in 1960, As-

Miniatures of John Aschauer continued on page 4



John Aschauer at work.

Morris Group Celebrates 70th Anniversary with a \$100,000 gift to the museum

Morris Group, Inc. kicked off its 70th year celebration with a \$100,000 gift to the American Precision Museum in Windsor, Vermont, which will be used to create a new outside space commemorating Dorothy Morris, a cofounder of the company who passed away in 2009.

Ann Lawless, Executive Director, said "We are honored that the Morris Group chose to make this major gift to the American Precision Museum in recognition of the 70th anniversary of the founding of the Robert E. Morris Company that Dorothy and

Morris Group continued on page 16



Calendar of Events 2011

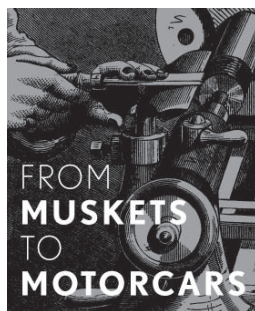


The American Precision Museum is honored to be participating in the Blue Star Museums program. This is a partnership among Blue Star Families, the National Endowment for the Arts, and more than 1,300 museums across the country offering free admission, with identification, for up to five immediate family members during this time of combat in Afghanistan and Iraq.

EXHIBIT

The Miniatures of John Aschauer, Master Craftsman

John Aschauer was a true artist and a technician of rare skill. The museum's collection of his work includes two working machine shops, a steam power plant, which he began at the age of 14 during his apprenticeship in Germany, and a selection of other models. For each one, he made every tiny screw, bolt and nut, machined every gear and every hydraulic pipe and fitting. Scaled to 1/16 size, his models were made completely from his memory of all the machines he had worked on during his long career in the machine tool industry.



EXHIBIT

From Muskets to Motor Cars: Yankee Ingenuity and the Road to Mass Production

Explore the tools and products that led to mass production. Demonstrations in the working machine shop, staffed by student interns from Springfield VT's River Valley Technical Center, will run daily July and August.

EXHIBIT

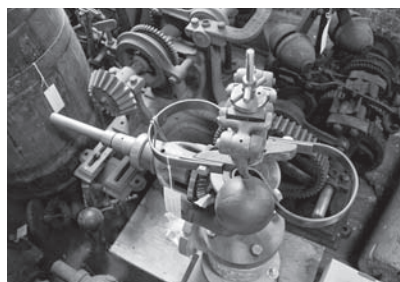
Waterwheel Pit and Millwork Drawings from the 1846 Robbins & Lawrence Armory

The detailed renderings from the study by the Historic American Engineering Record of the 1846 period show how the building evolved from 1846 to the present and how its waterpower system worked.

June 12, July 17, August 21, October 9

Behind-the-Scenes Sundays @ 3:00 pm

Have you ever been curious to learn more about all the museum's artifacts that are not on exhibit? Would you like to see the collections storage area and find out more from experienced museum staff? Then the Behind-the-Scenes Tours are for you! Space is limited so call ahead to reserve your place.



Getting a look behind-the-scenes in the storage area

Wednesday, August 3

3:00 pm

An Afternoon for Educators

Join colleagues for a reception and special tour. Learn about the museum, Vermont's industrial heritage, and using our traveling education kit, *The Industrial Revolution in Northern New England*, for your classroom (grades 7-12). Share in the planning for the educational programming to accompany the museum's Civil War exhibits to open in 2012! Call, e-mail museum to reserve.



Gun powder holder

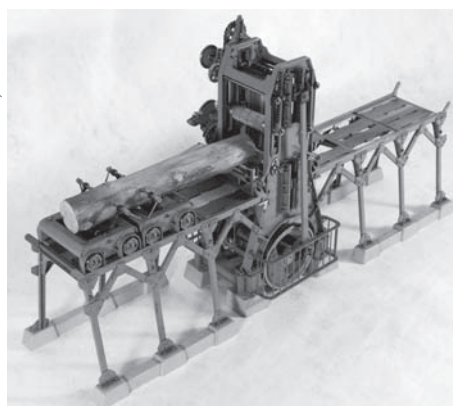
Sunday, August 7

2:00 pm

Vermont's Gunsmiths and Gunmakers from 1790 to 1900

Join author and noted gun collector, Terry Tyler, to learn about his extraordinary collection of Vermont-made firearms. This collection, assembled over a 50-year period, was recently purchased by the Shelburne Museum and is now on view in the Beach Gallery.

Tyler will sign copies of his book, *Vermont's Gunsmiths and Gunmakers*, followed by a tour of the museum's gun-making machines.



Aschauer 'gang saw'

Sunday, August 14

4:00 pm

"Reading" Places: Art, Architecture and Gravestones in Early Vermont

William Hosley, former director of the New Haven Museum and Historical Society presents Vermont's history through local architecture, gravestones, paintings, and pottery. *Funded, in part, by the Vermont Humanities Council.*



Sunday, August 28

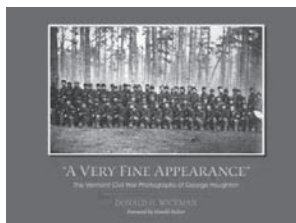
3:00 pm

George Houghton: Vermont's Civil War Photographer at Billings Farm & Museum, Woodstock Vermont

RSVP (802) 457-2355

Sponsored by American Precision Museum, Billings Farm & Museum and the Woodstock History Center

Donald Wickman, a Vermont Civil War historian, will talk about photographer George Houghton of Brattleboro who accompanied Vermont soldiers into the field, documenting their experiences during 1862-1863. His images of those immersed in battle express the significant role Vermonters played during the Civil War. Wickman will read from his recently published book, *A Very Fine Appearance: The Vermont Civil War Photographs of George Houghton*. There will be a book signing after Wickman's talk. *Funded, in part, by the Vermont Humanities Council*



Saturday, September 24

(free admission with special

Smithsonian Day Admission Card)

10:00 am - 5:00 pm

Special museum tours @ 11:00 and 2:00

It's Smithsonian Day at museums around the country! Download the Museum Day Admission Card from the Smithsonian's web site and come and visit us, as well as other museums in our area – all offering free admission.



Saturday, October 29

12th annual Model Engineering Show

9:00 am - 5:00 pm

American Precision Museum

Visit with New England's finest model engineers and enjoy special workshops and demonstrations throughout the day.



Paul Hamler with his model of a scroll saw

Board of Trustees

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Ann Lawless

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Edwin Battison
(1915-2009)

The American Precision Museum, founded in 1966, preserves the heritage of the mechanical arts, celebrates the ingenuity of our mechanical forebears, and explores the effects of their work on our everyday lives. The museum is housed in the original 1846 Robbins and Lawrence Armory in Windsor, Vermont. The Armory was designated a National Historic Landmark in 1972. The museum holds the largest collection of historically significant machine tools in the country.

Miniatures of John Aschauer *continued from page 1*

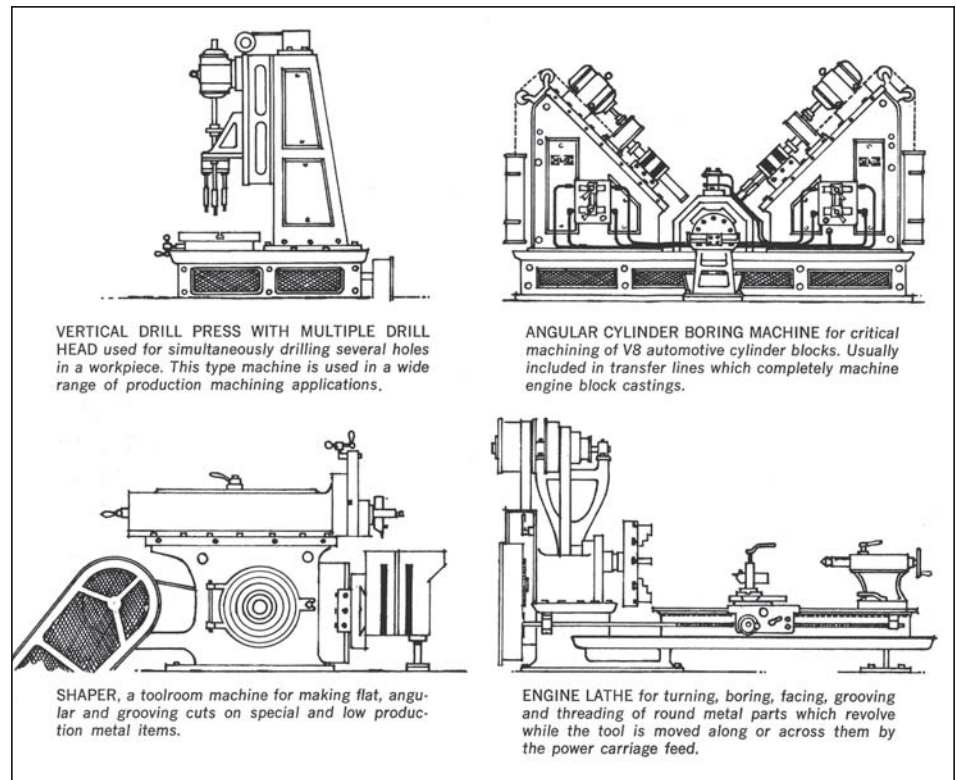
chauer continued to turn out miniatures made in his Michigan basement workshop over a twenty year period. He was a true artist, a technician of rare skill and a man of infinite patience, making each tiny miniature with the same loving care and attention to the smallest of details. Over the years, his miniatures appeared at trade shows in Germany and in this country as well as at the Chicago Museum of Science and Industry, the California Museum of Technology, manufacturing exhibits in Chicago, Charlotte, NC and Springfield MA and the American Precision Museum in Windsor VT.

“I wanted to leave something behind for the American public. I hope my work will inspire the younger generation to learn a trade — to show how far a worker can go.”

– *John Aschauer*

He made every tiny screw, bolt and nut, machined every gear and made every hydraulic pipe and fitting. He even turned out the handles for the steam

plant from bone, which he split, ground and hand-rubbed to size. Scaled to 1/16 size, all of John Aschauer’s models were made completely from memory, without any plans or designs. His only tools, which he also made himself, were a homemade lathe, a bench shaper and a bench drill press, a battery of files and an emery cloth.



When an interviewer once asked him about the amount of time he spent making these works of art, he modestly estimated that he probably spent 25,000 hours working on his models – the equivalent of 12 years of full-time employment! Aschauer wanted to be sure that his models found their final home in a museum, and the American Precision Museum is honored that this important collection is available for the public here.

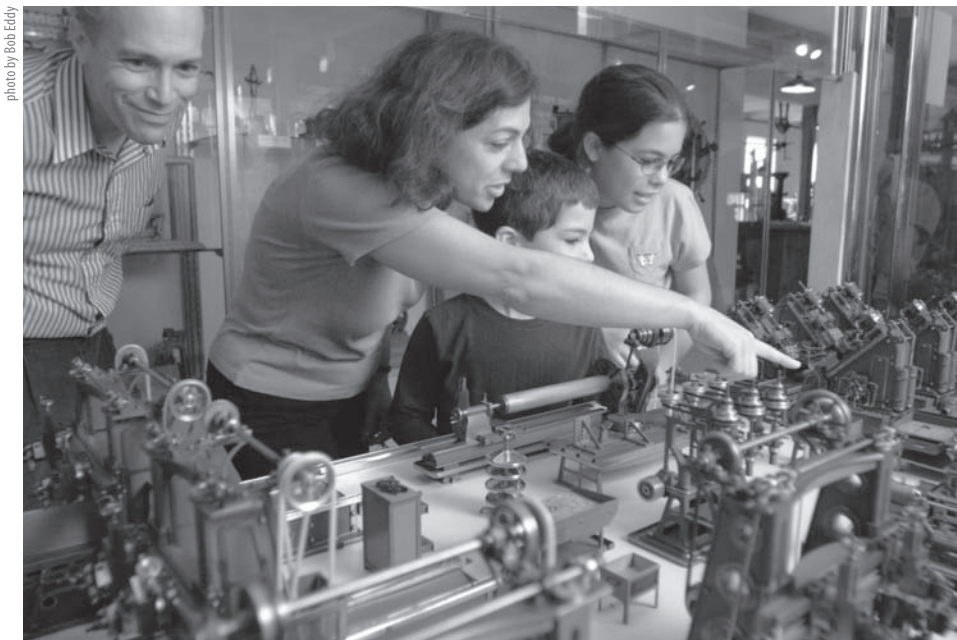


photo by Bob Eddy

Roald (Rolly) Cann, Trustee, Friend and Volunteer

It was with dismay and immense sadness that I learned of Rolly's death on May 15, 2011. I first had the pleasure of being introduced to him, while serving as the American Precision Museum's Acting Director, by Jim Halvorsen, then Vice-Chairman of the Board of Trustees, in 2001. Jim had known Rolly from his Bryant Grinder Corporation days and thought he would be the ideal person to serve as a volunteer at the museum. Needless to say, I agreed wholeheartedly!

It was 2001, and the museum was adding a new component to its exhibits, live demonstrations with different types of machine tools. Rolly quickly made himself at home, helping to select the machines and machine tools for the demonstrations. He made sure the necessary features were in place to make it a safe environment both for the machine operator and the public. This began Rolly's long career as museum docent #1. Not only were his demonstrations and tours popular, but he also began providing invaluable assistance

From the American Precision Museum:

Gil Whittemore, Chairman of the APM Board of Trustees: "Rolly had a unique ability to combine unfailing courtesy and kindness with an equally unfailing perception and candor, making him a valued contributor to all the projects he worked on. He will be missed not only at the museum, but also in Weathersfield, where he was active in town government and community activities."

Hub Yonkers: "It really is sad news; some people truly fill the space they inhabit, and Rolly was one of those."

Eric Gilbertson: "He was diligent, a stickler for precision in language and viewed things with a bit of a chuckle. He was very practical as well — I remember his "ear glasses" a clear plastic gadget that served like cupping your hand behind your ear. They worked well..."



Rolly Cann (right) with former trustee Don Whitney

with the installation of new exhibits each season.

When Rolly was elected to the Board of Trustees, with his encyclopedic knowledge of machine tools, he was a natural fit. Similarly, his interest in the financial health of the museum made him a valued member on the Audit Committee. More often than not, it was Rolly who always spotted the errors in grammar or spelling others had missed. He was also an amazing ambassador for the museum, always supporting special events and programs, frequently accompanied by his lovely wife Lois until her death in 2005. Members and visitors to the museum will miss Rolly, not only for his good humor and generosity but also that warm, wonderful smile that lit up his face.

Don Whitney, a fellow Trustee who had a long career at Springfield's Fellows Gear Shaper knew Rolly when he was Chief of Research at Bryant Grinder. Rolly was there for over 40 years,

traveling all over the world as a trouble shooter for the company. The two first met when Bryant needed help with the development of a grinder, and Fellows had what Bryant needed. That was the beginning of a long friendship, and the two continued to work together even after the project was finished. "About this same time, engineering and mathematics night courses were being taught in Springfield, sponsored by the Society of Manufacturing Engineers and the local high school. Rolly taught some of the advanced math courses, one being spectral analysis, which I took. Rolly was a very good teacher and a good friend," says Don.

It seems appropriate that his obituary would say, "*in lieu of flowers, it is asked that friends and family practice a random act of kindness.*" Rolly would have liked that.

— Shirley J. Grainger-Inselburg,
Board of Advisors and former Trustee

Found in Collections – a Three-Part Story

This three-part story began in 2006 when the Institute of Museum and Library Services awarded \$136,000 for the museum's three year, Collections Information Project, enabling us to hire our first Collections Manager, and upgrade our recordkeeping and care standards for the museum's three dimensional collections. With the addition of matching funds provided by MacLean-Fogg and the Gleason Foundation, we installed new, networked collections management software and wrote standards for documentation and care and handling, and carefully rearranged objects in storage to promote their longevity and ease of access.

It quickly became apparent that the museum did not have title to about 1,400 artifacts — 40% of the collection.



Found in Collection: 1891 No. 7 Franklin Manual Typewriter

Without clear title, a museum does not have the legal authority to use the object for typical activities such as loans to other museums, hands-on programs or even conservation prior to exhibition. When the American Precision Museum was founded in 1966, not only were standards of care, especially for smaller museums, not as well defined as they are today, but also the procedures for donating artifacts were not as formalized.

Because Vermont, unlike more than thirty other states, did not have a museum property law, Part II of this story finds Executive Director Ann Lawless, Board Chairman Gil Whittemore, and a team of Vermont museum professionals working on new legislation, which passed in 2008 (*Vermont Statutes, Title 27: Chapter 12 – Museum Property Law*). This law lays out a series of steps that museums, libraries, historical societies and archival repositories may follow to acquire title to undocumented objects.

Part III of the story began in 2010 when Collections Manager Beau Harris and Ann Lawless sought more funding

from IMLS to implement the new law. We were awarded a grant of \$62,000 for the “Found in Collections Project”. Kathryn Marshall joined the staff in January 2011 as Collections Assistant for one year to manage the project of resolving ownership issues. The law outlines a lengthy procedure — placement of three notices, a month apart, in a local newspaper, to list each object and invite anyone who thinks he/she is the proper owner to contact the museum and present a claim. Then a six-month waiting period follows. If no valid claims are made, according to the statute, the museum acquires a legal title.

The FIC project is also supporting the ongoing work of the Collections Committee of the Board. In 2009 the staff and Committee began drafting a Collecting Plan to guide the future shape of the collections. Three new assessments by outside curators will help us answer important questions. Are there duplicates, or items not related to our mission? From what time periods and geographical areas are we collecting?

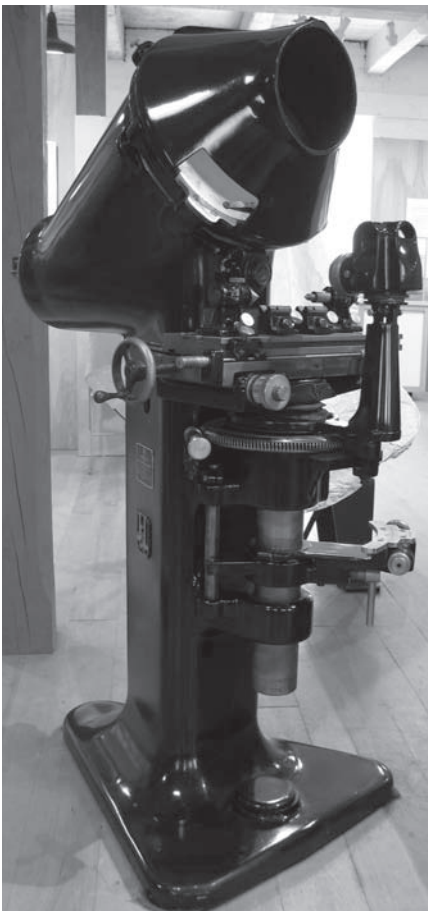


Found in Collection: Horizontal Milling Machine, circa 1850-1870

Mechanical Design and Innovation: Christopher Gray, River Valley Technical Center

The last of the newspaper notices ran in April, and the six-month waiting period will expire October 22nd. There have been few calls, and no claims are yet underway. In November, with the new information from the assessments, the staff will then resume work on the Collecting Plan and formally add those newly titled objects that fit into the museum's permanent and educational collections.

"I am happy to be working for the first museum in Vermont to implement this new law," says Marshall. "Once we have established title to all our artifacts, we will be in a much better position to care for them. The project has been a good learning experience for me and the museum, and we will have a lot to share with others when the project is finally completed."



Found in Collection: Jones & Lamson Optical Comparator, circa 1940-1950

In 2007, Christopher Gray, instructor for the Manufacturing and Engineering Program at the River Valley Technical Center in Springfield VT, approached APM to see if there might be a role at the museum for his students. Now called Mechanical Design and Innovation, this program is open to area sophomores, juniors and seniors from Vermont and New Hampshire and helps students master the skills and competencies necessary for careers in today's manufacturing and engineering fields. Each year Gray's students have gone on to win national competitions, bringing home significant awards, reflecting the excellence of the RVTC program.

In 1995, as a museum Trustee, Gray became interested in community redevelopment in Windsor and Springfield – two towns rebounding from losses of their machine tool manufacturing base, the heart and soul of both towns for almost a century. As a laid-off machinist at Bryant Grinder, Gray had felt these issues personally, before turning to a teaching career. Well aware of the significance of museum's collections and the Armory building, Gray was hopeful that there could be a role here for his students.

He and Ann Lawless, the museum's director, began a conversation in 2007 that led to the Working Machine Shop. For the museum, it was the perfect solution. Visitors wanted to see machines in action, and museum Trustees and staff shared this goal too – being mindful of safety issues both for the machine operators and the visitors. Student interpreters could help our non-mechanically inclined visitors understand machinery, and they, in turn, could learn from discussions with visitors with machining and engineering backgrounds.

Museum Trustees enthusiastically endorsed the concept of the Working Machine Shop, and Gray proposed approaching the Vermont Department of Labor for funds to launch the program. The team strategy was successful. VTDOL supported construction of the shop, complete with a dedicated electric circuit, wiring with shutoffs, and a specially built barrier to isolate the public from the machines but still conducive



Christopher Gray, instructor Mechanical Design and Innovation at the River Valley Technical Center in Springfield, Vermont

to interaction between the interns and visitors. For two years, the grant covered Gray's participation to help the museum recruit, train and support the students as machine operators. It provided them with summer jobs focusing on the history of our region, work readiness skills and the opportunity to work with museum staff and interact with the public. Since 2010 APM has funded the project in its entirety. Without Gray's expertise and commitment to both his students and the museum, the project could have floundered. It has been a win-win situation for everyone – the students, the museum and Chris Gray.

American Precision Museum Attends 2010 International Manufacturing Technology Show in Chicago

The American Precision Museum was the main attraction in the first-ever Manufacturing Museum at IMTS in Chicago on September 13-18, 2010. Well over 1,000 people visited our booth asking

questions about the museum and promising to visit. It was an honor to have been invited to attend, and we are grateful to AMT for giving us that opportunity.

The relationship between the

American Precision Museum and the Association For Manufacturing Technology goes back to the establishment of the Machine Tool Hall of Fame, now featured on the museum's website. This began as a joint project between the two organizations to honor those pioneers in the machine tool industry who have made significant contributions to the



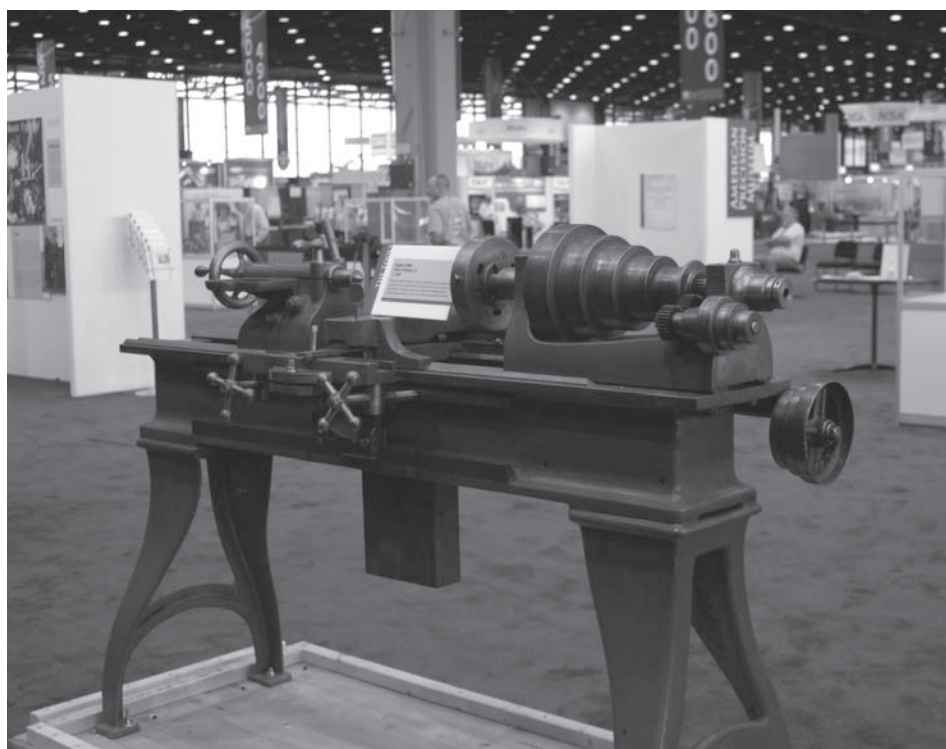
American machine tool industry.

Founded in 1902, AMT represents and promotes the interests of American providers of manufacturing machinery and equipment. Since 1988, AMT has broadened its membership scope to include all of the elements of manufacturing — design, automation, material removal, material forming, assembly, inspection and testing, and communications and control. These changes reflect the worldwide evolution in the technologies of the manufacturing process and signify the commitment of U.S. providers to deliver and support the world's leading manufacturing technologies.

Every even numbered year in Chicago, AMT organizes and sponsors IMTS, the largest industrial show in the



Hub Yonkers, Ann Lawless and Nancy Hoggson represented the museum at the show



Pratt & Whitney Engine Lathe, gift of Alden Sherman

Shaping America Project Wins National Endowment for the Humanities Grant

A new, permanent exhibition at the museum will open May 2014, thanks to a major grant of \$340,000 from the National Endowment for the Humanities (NEH). *Shaping America: Machines and Machinists at Work* will enable the museum to showcase its unparalleled collection of historic precision machine tools and to tell the story of Windsor as an important incubator of the machine tool industry.

The project will also explore a strong set of themes, developed over several years of study by the museum's Board of Trustees, its Board of Advisors, and a team of historians, scholars, and museum professionals:

- Innovation – What is it? How does it occur?
- Work – How are technical training, craftsmanship, and skill passed along? How important are these attributes today?
- Machine Tools and American Culture – How did the machinists and tool builders of “Precision Valley” influence American history, helping drive rapid industrialization, the emergence of the U.S. as a world power, and the development of the consumer culture?



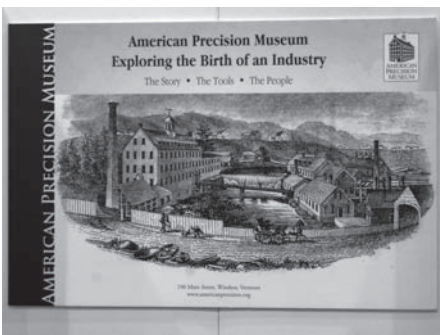
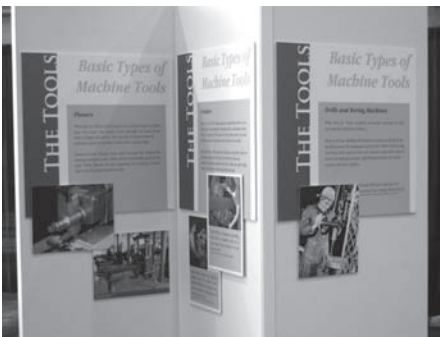
The exhibition will include more than thirty historic machine tools and dozens of smaller artifacts, along with shop drawings, photos, hands-on activities, oral history audio clips, and videos. The project also includes developing related educational programming.

The NEH grants are extremely competitive, and all projects are reviewed by an outside panel of experts. That panel gave our proposal high praise for our site, the collection, the thoroughness of the plan, and the quality of the proposed interpretation.

The museum has committed \$199,000 to the project. The NEH award provides \$340,000. The fact that the Endowment thought the project worthy of support is sure to help the museum raise the remaining funds to complete the project over the next three years, to meet a total project budget of \$840,000. For more information contact Ann Lawless, Executive Director.



Americas, which last year was named the No. 2 trade show in the United States. Total registration for the six-day event was 82,411 with 1,728 companies exhibiting in 1,180 booths. It was a week well spent for the museum giving us the opportunity to make new friends and renew old acquaintances!



Museum adds Collections Assistant

Kathryn Marshall has recently joined the American Precision Museum (APM) as Collections Assistant. This is a new position thanks to a Federal grant from the Institute of Museum and Library Services (IMLS). Marshall will be working on the museum's *Found in Collections* project. She holds a graduate degree in museum studies from Syracuse University, and before joining APM, she served in several internship positions in Vermont and Virginia.



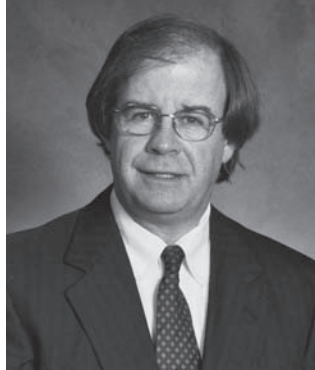
Kathryn Marshall

From the Chairman, Board of Trustees and the Executive Director

Our annual report always gives us the opportunity to reflect on the year just passed. As you will see in the report, the museum has made progress on many fronts in improving its collections care, facilities, exhibits and education programs.

None of this would be possible without your continuing support. I noted a year ago that, like most non-profits, the American Precision Museum was feeling the results of this economic downturn. This continues to be true. Our loyal members and donors continue to support us, but many have had to reduce their level of support. As pressure increases on government budgets at all levels, so does the competition for government grants, which have provided major recent funding for restoration of our historic building, improving the care and documentation of our collections, and helping us shape the museum's public face through exhibits and programs.

We are very pleased to announce we have been awarded a major grant from the National Endowment for the Humanities for a new exhibit and related educational programming, *Shaping America: Machines and Machinists at Work*, which will open in 2014, following two Civil War exhibits opening in 2012-13. Both these exhibit projects require significant matching funds, and we will be looking to our friends for support.



Gilbert Whittemore
Chairman, Board of Trustees



Ann Lawless
Executive Director

Even with these remarkable successes in fundraising for specific projects, the museum must be wise and shift our resources from government grants to private donations. It is in times of economic downturn that the museum's long-term goal of preserving our heritage through good times and bad becomes most needed.

Thus, a major goal of the past year was to strengthen and renew the museum's connections to the machine tool industry. Our long-time Machine Tool Hall of Fame partner, the Association for Manufacturing Technology, invited us to exhibit at the International Machine Tool Show in Chicago, September 13-18. This was our first presence at this show in some years, and it was a great success. Since Chicago, there have been several important follow-up contacts that have the potential of being very important for the museum either as individual or corporate donors.

We invite you to read this report on our activities carefully and share not only in our reflections on the past year's challenges and accomplishments but also on our goals and opportunities for the future.

Financials

Condensed Balance Sheets*

for the years ended April 30, 2009 and April 30, 2010

	2009	2010
ASSETS		
Cash and equivalents	\$ 75,247	\$ 17,555
Grant receivables	46,256	-
Other current assets	6,034	8,913
Property and equipment, net of depreciation	829,245	800,650
Investments	1,288,833	1,576,301
TOTAL ASSETS	\$ 2,245,615	\$ 2,403,419
LIABILITIES AND NET ASSETS		
Current liabilities	\$ 11,246	\$ 10,514
Unrestricted net assets	1,428,881	1,426,551
Temporarily restricted net assets	197,506	234,167
Permanently restricted net assets	607,982	732,187
Total Net Assets	\$ 2,234,369	\$ 2,392,905
TOTAL LIABILITIES AND NET ASSETS	\$ 2,245,615	\$ 2,403,419

Condensed Statement Of Activities And Change In Net Assets*

for the years ended April 30, 2009 and April 30, 2010

	2009	2010
REVENUE		
Donations, bequests, grants	\$ 327,553	\$ 101,305
Admissions	18,599	20,209
Memberships	24,635	22,900
Investment income	52,461	58,678
Unrealized gain (loss) on investments	(246,251)	372,772
Other income, net	6,736	8,475
TOTAL REVENUE	\$ 183,733	\$ 584,339
EXPENSES		
Salaries and benefits	\$ 190,890	\$ 192,503
Depreciation	48,565	50,589
Occupancy, insurance and maintenance	24,208	27,711
Office and publication costs	26,808	27,411
Professional services	18,396	25,415
Contracted services	43,783	36,708
Other expenses	30,812	65,466
TOTAL EXPENSES	\$ 483,462	\$ 425,803
REVENUES LESS EXPENSES EQUALS CHANGE IN NET ASSETS	\$ (299,729)	\$ 158,536

*Complete reviewed 2010 and 2009 financial statements with accompanying notes and opinions are available at the museum office.

Board of Advisors

Peter Brink <i>National Trust For Historic Preservation (Retired)</i>	Michael Newbold <i>Marketing and Planning Executive (Retired), Former Trustee</i>
Gene Cesari <i>Landmark College, President Emeritus, Former Trustee</i>	Wayne Moore <i>Moore Special Tool Company (Retired), Former Trustee</i>
Ray Clark <i>Recreate, President</i>	Jane Osgood <i>Local Developer, Historic Preservation</i>
Ted Cooley <i>Cooley & Company, Former Trustee</i>	Tom Putnam <i>Markem Corporation (Retired)</i>
Richard Couch <i>Hypertherm, Founder, Chairman/Ceo</i>	Rick Roesch <i>Citigroup (Retired), Former Trustee</i>
Ann Cousins <i>Preservation Trust Of Vermont</i>	Sarah Rooker <i>Flow Of History, Director</i>
David Donath <i>Woodstock Foundation/ Billings Farm & Museum, President</i>	Alden O. Sherman <i>Alden O. Sherman Company, Founder (Retired), Former Trustee</i>
James Farley <i>Speedfam-Ipec, Former Trustee</i>	Jane E. Sherman <i>Alden O. Sherman Company, Former Trustee</i>
Warren Garfield <i>Lovejoy Tool</i>	Gerhard Sihler <i>Index Corporation (Retired)</i>
Shirley Grainger <i>Dana Biomedical Library (Retired), Former Trustee</i>	Merritt Roe Smith <i>MIT Professor, Former Trustee</i>
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Sarwar Kashmeri <i>Strategic Communica- tions Advisor</i>	Donald Whitney <i>Fellows Gear Shaper, (Retired), Former Trustee</i>
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Douglas Loudon <i>Loudon Investment Management, Former Trustee</i>	

2010 Report on Giving

It is with grateful appreciation that we recognize those who contributed so generously to the American Precision Museum in 2010. Each gift we receive helps to preserve and maintain the 1846 Robbins & Lawrence Armory and our historically significant machine tool collections.

Support comes in many ways — membership, annual and special purpose gifts, grants to the museum for specific projects, gifts in kind and those made in honor or in memory of a loved one or friend, as well as gifts to strengthen our collection of historically significant machine tools. It is your commitment that continues to sustain us.

We especially want to thank the Association for Manufacturing Technology (AMT) for making it possible for the museum to be part of the 2010 International Machine Tool Show in Chicago last September. It was a unique experience for us and gave us the opportunity to reconnect with many old friends in the industry, as well as making some important new ones. AMT also recognized the importance of having all John Aschauer's models together at the museum so that they would be enjoyed by generations to come. *Miniatures of John Aschauer, Master Craftsman*, the museum's complete collection will be on exhibit this season. We thank AMT for their continued support.

E. Hubbard Yonkers
Chair, Development Committee

ANNUAL AND SPECIAL PURPOSE GIFTS

January 1-December 31, 2010

Robbins & Lawrence Society

(\$2,500 +)

Association for Manufacturing Technology
Mimi Baird
James N. and Nancy J. Farley
Heidenhain Corporation
Douglas M. Loudon
Old Stones Foundation
Rick Roesch
Margaret R. Rothchild

Mill Brook Society

(\$1,000 - \$2,499)

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

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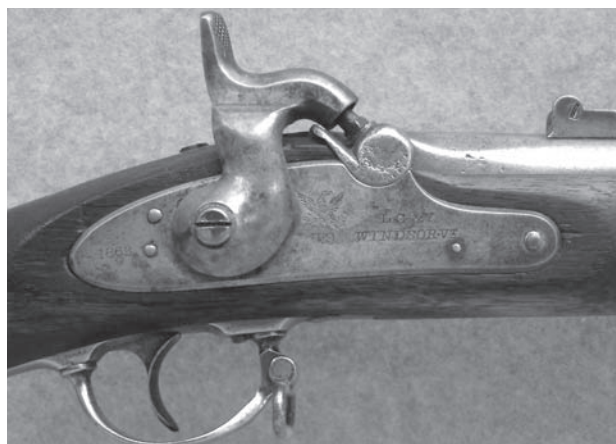
Sample language for an outright, unrestricted residuary bequest: "I give to the American Precision Museum, Windsor, Vermont _____ dollars (\$_____), or _____ percent (____%) of my residuary estate, to be used for the benefit of the American Precision Museum as the Trustees thereof may direct."

Ordinary People; Extraordinary Times

The Civil War Sesquicentennial at the American Precision Museum

In May 2012, the museum will open two new exhibits commemorating the American Civil War. *Arming the Troops* will tell the little-known story of how the machine tool firm Lamson, Goodnow & Yale, operating out of the Robbins & Lawrence armory in Windsor, played a critical role in outfitting the Union Army. Altogether, the North produced more than 1.5 million rifles in the span of about three years, along with tens of thousands of pistols and carbines. Through new research in the museum's archives, the museum has been able to demonstrate that the majority of small arms produced for the Union troops were made using machinery designed and produced in Windsor. *Arming the Troops* will tell the story of the men and the machines that made possible the production of guns on such a massive scale.

The second exhibit, *Full Duty*, will explore the day-to-day life of Vermont soldiers, doctors, and nurses in camp and on the battlefield. Drawing on the personal collection of Howard Coffin, a well-known Vermont historian, the exhibit will feature letters, diaries, photographs, maps, paintings, and newspapers, along with uniform parts, weapons, and other military accoutrements. These



A Special Model 1861 military rifle, made at the Robbins & Lawrence Armory by Lamson, Goodnow, & Yale.

artifacts and images will help visitors explore the concepts of duty and personal sacrifice, and the large impact that an individual's actions and decisions can have on historic events. The exhibit takes its name from Governor Erastus Fairbanks' supposed reply to President Lincoln's telegram asking what could be expected from Vermont. The reply was, "Vermont will do its full duty."

While *Full Duty* will highlight the contribution of Vermont's soldiers to the Union war effort, *Arming the Troops* will demonstrate how the precision tool industry began to serve as the backbone of America industrial and military power as it developed in the 19th century. Placed side by side, the two exhibits will create links between the weapons and the battles, the home front and the battlefield.

Morris Group *continued from page 1*

Bob began together in 1941. This gift will be used to create a new landscape next to the Mill Brook beside the 1846 Robbins & Lawrence Armory that now houses the museum. The project will create an inviting space for visitors, and it will be named in memory of Dorothy Morris. Bob Morris was an early supporter of our founder Ed Battison's efforts to establish a world-class collection of machines and machine tools. When Bob died in 1988, Dorothy continued to support the museum. She presided over major renovations to the building's entry wing, which was rededicated in Bob's memory. When this project is finished Dorothy and Bob will be remembered in significant areas both inside and outside the museum. This is a fitting tribute to a wonderful family."



Dorothy and Robert Morris

"What a great year to turn seventy," said Brad Morris, President of the Morris Group and Dorothy and Bob's grandson. "Business has recovered to near pre-melt-down levels, and we are reaping the rewards for sustaining intact our customer support services and engineering teams during the tough months between 2008 and early 2010."

Originally founded as The Robert E. Morris Company, today's Morris Group, Inc. has grown beyond its New England base and now operates a diversified holding company with fourteen subsidiaries servicing the metalworking industries throughout North America.

Adapted from Tool Talk, the newsletter of the American Machine Tool Distributors Association.



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