Education is the Priority at APM

New Programs at APM

This season, beginning on May 26th, APM will be launching new educational programs and a speaker series.

We began these efforts in February with a very successful event called “Introduce a Girl to Engineering Day”, pictured below and to the right. Eight professional women engineers from several fields of engineering met with, presented to, and inspired a crowd of 50 girls of all ages, (and a man or two). The museum lobby was packed!

Here are some of the things we will be offering in 2018:

• New education and interpretive programs to be led by volunteers and docents. Three excited Windsor High School students will begin training to operate, interpret, and develop educational programs for the machines in the working machine shop now renamed the Innovation Station.

• Increased efforts to engage the next generation by enticing and inviting more school clubs and robotics teams to participate in the annual Model Engineer and Family Maker Space Show.

• More hands-on, guided and self-guided programs in a wide variety of Science, Technology, Engineering, Arts and Math (STEAM) activities as well as robotics and coding workshops.

APM Collections Go Online

This is an exciting development for the museum. So far, we have uploaded about 100 records with images to the online platform affiliated with our collections management software. Go to http://americanprecision.pastperfectonline.com, or go through the link on the collections page at our website. You can view random images, or search by keyword. There are three catalogues, and almost everything we’ve uploaded so far is in the Objects catalog. The information provided is very basic, but it’s a start.

We will be adding more Objects, and planning new uploads in the Archives and Photos catalogs as time allows. Viewers can contact the museum from each record to request more information. Do some searching and tell us what you think.

New Date Set for APM’s Model Engineering Show & Family Maker Space

In an effort to reach more people, and engage a wide variety of modelers and makers, APM is moving our signature event to Saturday, August 18th, 2018. The 19th annual event will be held at two locations, the museum, and the Windsor Recreation Center within walking distance of the museum. Robotics Teams in a “Robotics Riot”, modelers with air powered machines, boats, and a host of other displays and demonstrations are all part of this day long event for the entire family. One admission charge covers both locations. 9AM-4PM on the 18th.

In this edition...
Honor Roll of Donors
Corporate Members
Exhibits and Events
Message from the Director and more.
Message from the Executive Director - Ann Lawless

Dear members, supporters, friends, and colleagues,

This is a bittersweet time, as I announce my retirement. When I began my new job as APM Executive Director in March 2003, there was so much to do, it was overwhelming! Lucky for me, I was hired by an exceptional team of Trustee leaders, and they had prepared the way before I came. I still appreciate the honor of working with such talented people - Doug Loudon, Rick Roesch, Clark Griffiths, and Eric Gilbertson. It is gratifying that they are all still committed to and involved in the museum’s work.

“I have loved every minute of my time at American Precision Museum.”

Working with many more exceptional Trustees over the years, we continued to sort out priorities, and move the museum forward in many directions. As a small museum with a small staff, we focused on a couple of priorities at a time, and we made significant progress on building preservation, collections management, exhibits and education. It has been a pleasure to work with talented and dedicated staff members over the years who have all improved our museum. Our members and supporters are the engine that drives us forward, and it has been very rewarding to get to know so many knowledgeable and generous people. I am proud of what we accomplished together.

Our Search Committee is working hard to find the best new leader. Our timing could not be better. New programs are all in place for the 2018 season, so our new leader has time to learn the ropes. Our financial position is strong, and the goals in our new 2017 Transformation Plan are being set in motion. There are plenty of really compelling projects just waiting for leadership. The details of the transition are in progress. I plan to do all I can to ensure that my successor gets off to a strong start.

After a good break to enjoy the seasons in my garden and more time with friends and family, I plan to explore new part time work opportunities. I invite you to stay in touch!

Thank you for your support of American Precision Museum.

Ann Lawless

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Our Mission: To capture the imaginations of young and old with the spirit of innovation, problem solving, and design demonstrated through the dynamic story of the machines and people which form the foundation and future of the manufacturing industry in America.
Message from the Chair of the Board - Steve Dalessio

Thanks to our loyal membership and their generous donations, the museum anticipates realizing our vision of telling the story of how the American System of Manufacturing connects to modern day manufacturing. This is an exciting time for the museum and its dedicated staff.

Last summer visitors to the museum saw our working machine shop expand to include hands on activities, and equipment demonstrations thanks to Vermont Technical College as well as many informative lectures. Our education offerings included a Junior Apprentice Program that provided the opportunity for children to learn about manufacturing while having fun.

Your support of our education program has been amazing giving the 2018 – 2019 season a great start with new STEM focused programs, more hands-on activities and a lecture series on Sustainability in Manufacturing. Take a look at the 4 middle pages of this newsletter for detailed descriptions of programs and events coming this season. Currently, the lobby area is being renovated to provide more space for programming and to make the area easier to heat and cool. This is a big undertaking and we look forward to the completion of this phase of our overall plans.

As we move forward with our plans there will be challenges and opportunities. I urge members not only to continue to donate financially, but also consider volunteering your time and expertise to the various boards and committees. They say many hands make light work and the museum is no exception.

I want to also acknowledge the 14 years of dedicated service of our current Executive Director, Ann Lawless. She has helped move APM forward in so many ways. I wish her well, and I wish long time Trustee, Eric Gilbertson well in all his pursuits.

I hope you will share in my excitement for this season and have an opportunity to visit the museum. There will be something for everyone!
Museum Store Expands

APM is proud to announce our expanded shopping experience! Come in and browse our book section for fascinating historical, trade and youth publications. Also available are STEM games and toys. Show your love of machining with our APM t-shirts, aprons and bags. The museum store is open 7 days a week and some items are available online. The museum store is one of the best ways to financially support your favorite cultural institution.

Lisa Yordy, Visitor Services Manager and Museum Store maven gets ready for the new season with an armful of new items for sale in the museum and online.

Did you know that in 2017....?
- 4,631 people visited the museum
- 297 people attended our Model Engineering Show and Maker Space
- 45 special tours and events
- 29 new donors contributed
- 23 new individual members joined
- 5 new corporate members joined

From Memorial Day to Labor Day we offer free admission to all active duty National Guard and Reserve military personnel and up to five family members.
Corporate Members

In the 1840s, Robbins & Lawrence created a center of excellence in hand-crafted gunsmithing and precision milling. Their work set the stage for future manufacturing around the world. Their business model included apprenticeship, sharing of skills across firms, and investment in innovation. Our corporate members listed below carry on these deep traditions.

If you are interested in becoming a corporate member please call the museum at 802-674-5781. Special thanks to Trustee Larry Schwartz and Volunteer Tom Dembik for their help in recruiting new corporate members.

(See last page of this newsletter).

Leader ($10,000 or more)

Morris Group, Inc.

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Programs and Exhibits 2018

New Daily & Weekly Programs at the Museum

**MAKER MONDAY**
Join us on the **FIRST MONDAY** of every month from June through October for makerspace fun. From simple cardboard marble mazes to K’nex machines, to building your own telegraph switch. A limited number of basic tools available. Come and experience the joy of making!

**FEE:** Free with admission
**TIME:** 10:00am to Noon

**TINKER TUESDAY**
On the **SECOND TUESDAY** of every month from June through October. The dictionary offers the following definitions of tinker:
- tinkering play
- to work in the manner of a tinker; especially: to repair, adjust, or work with something in an unskilled or experimental manner
- to repair, adjust, or experiment with

Bring some small item to take apart and see how it works. We will have a limited supply of objects to tinker with.

**FEE:** Free with admission
**TIME:** 10:00am to Noon

**WONDER WEDNESDAY**
On the **THIRD WEDNESDAY** of every month from June through October.

Have you ever wondered:
- how something is made?
- if you could make something?
- why some buildings fall down in an earthquake and others don’t?
- about anything?

In this day of experimenting and making and wondering, enjoy the fun of learning while we pull out all the stops to find answers to those wondering questions. This program may include simple machines, building electronic circuits, figuring out how a magnet works, learning basic coding through games or even creating your own comic book or graphic novel.

**FEE:** Free with admission
**TIME:** 10:00am to Noon

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**Admission**
- **Members** free
- **Adults** $8
- **Students** $5
- **Kids under 6** free
- **Family** $20

**Special Group Rates**
Call for details
802-674-5781

**Hours**
- **Open daily**
- **Memorial Day weekend through October.**
- **Memorial Day weekend through October.**
- **Memorial Day weekend through October.**
- **Memorial Day weekend through October.**
2018 DAILY PROGRAMS

JUNIOR APPRENTICE PROGRAM
Children between the ages of 8-12 accompanied by parents may visit the museum any day and complete the Junior Apprentice booklet filled with tasks and activities to learn about the museum and its history.

Those who complete the booklet will receive a badge made in our 3D printer and a certificate. Once you are a Junior Apprentice you qualify to join our Saturday Young Apprentice Club. (See below).

FEE: Free with admission

SPECIAL WEEKEND YOUTH PROGRAM

YOUNG APPRENTICE CLUB
EVERY OTHER SATURDAY from June 2 through October 20
Junior Apprentices may join our Saturday Young Apprentice Club that includes a wide variety of more advance guided activities, which may include: beginning coding, basic robotics, 3D design and printing, and many more activities to challenge the maker mind. Young Apprentices who complete special projects may present them on August 18th during our Model Engineer and Maker Space Show.
Reservations suggested. Space is limited so please call ahead to save your space.
Some programs may be subject to materials and instructor fees.
Call for more information.

DATES for the YOUNG APPRENTICE CLUB meetings:
June 2nd and 16th and 30th
July 14th and 28th
August 11th and 25th
September 8th and 22nd
October 6th and 20th

SPECIAL ADULT AND PUBLIC PROGRAMS

19th ANNUAL MODEL ENGINEERING SHOW & FAMILY MAKER SPACE
August 18th - 9am - 4pm
At the Windsor Recreation Center (Union Street at Town Hall) and the museum. This is the signature event of the American Precision Museum for the year.

The Model Engineering Show provides visitors the chance to see the work of some of New England’s finest model engineers and machinists, along with engaging demonstrations highlighting the most intricate of machining skills from the past, present, and future. See models built by hand and powered by air pressure, with many maker tables where young and old and create, learn, and experiment. The single admission price covers entry to both locations.
$10 Adults
$5 Children

Junior Apprentice Children accompanied by Parents are FREE if their badge is worn to the event.
SUSTAINABILITY SPEAKERS SERIES
This year, for the first time, we have a guiding topic and theme statement for this series of seven lectures. Topic: Innovation in Manufacturing for a Sustainable Economy and Environment. The speaker series are scheduled for Sundays, all at 12:30pm with one exception on July 22.

June 3 at 12:30pm
Scott Davison, MS
Director of Education
American Precision Museum
Manufacturing, Consumers, and the Environment: A Facilitated Dialogue
In this first Sustainability Series presentation, museum Education Director Scott Davison will facilitate an interactive dialogue to uncover and explore our personal, economic and environmental relationships with modern manufacturing. The public is encouraged to attend and share experiences, opinions, and ideas.

June 17 at 12:30pm
Dr. Marie Duggan
Professor of Economics
Keene State College
Precision Independents: Growth in the Challenging 21st Century
Dr. Duggan discusses Keene’s successful precision manufacturing cluster, consisting of small firms that have seen growth since 2000. Her work touches on social issues including wages, labor, unions, community investment, size and character of manufacturing companies and their impact on rural versus urban communities.

July 8 at 12:30pm
Andrew Dey
Operations Director, Unity Homes
Precision Manufacturing Builds Better Homes
Mr. Dey’s presentation will focus on Unity Homes’ off-site manufacturing methods used to build sustainable, high-performance homes, tracing the company’s strategies and processes over the past 40 years.

July 22 at 2:30pm
Dr. Benoit Cushman-Roisin
Professor, Thayer School of Engineering, Dartmouth College
Design for Environment and Green Manufacturing
Recognition of environmental limits has led industry to move gradually toward sustainability. Today, this is most manifest in sustainable product design and green manufacturing. This presentation reviews a number of examples, illustrating how industry moved from picking “low hanging fruits” to embracing the main challenges.

August 5 at 12:30pm
Dr. Robert Forrant
Distinguished University Professor
University of Massachusetts, Lowell
The Rise, Demise, and Possible Rebirth of the Connecticut River Valley Industrial Corridor
Through an examination of the history of innovation and sustainable development in Worcester and in cities and towns along the Connecticut River from Springfield, MA to Springfield, VT, Dr. Forrant will describe how these places developed enterprises that offered workers decent wages and an opportunity to support their families. How did this happen? And, more importantly what took place after the Second World War, which interrupted this virtuous circle of sustained and reasonably share prosperity?

August 26 at 12:30pm
Dr. Jeremy Faludi
Professor, Thayer School of Engineering, Dartmouth College
Sustainability of 3D Printing: Myths, Facts, and Possibilities
3D printing is beginning to revolutionize manufacturing—will it be for the better? The sustainability of 3D printing is the subject of much hype; some claims are empirically supported, others are not. To help separate fact from fiction, multiple studies were performed using life-cycle assessment to quantify the environmental impacts. The talk will summarize these results to describe 3D printing’s promise for the future.

September 9 at 12:30pm
Bob Flint
Executive Director, Springfield Regional Development Corporation
Economic Development for Industrial Buildings
Bob Flint heads our regional economic development agency. SRDC works on a contract basis with the town of Windsor, which has several new and thriving industrial and retail sites, as well as challenging former industrial properties.
EXHIBITS

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

Shaping America
From the tool revolution of the 1800s to advanced manufacturing today, technical innovation has shaped who we are and how we live.

The Tool Revolution describes how ingenious mechanics in the 1840s forged an industrial America by creating one of the best gun-making operations in the world in Windsor.

Arming the Union
This site played a critical role in outfitting the Union Army during the Civil War. Learn how the precision tool industry served as the backbone of American industrial and military power.

Shaping Consumer Culture
In the years following the Civil War, the tools of armory practice were put to work making consumer goods that required more accuracy.

Industrial Might
Machine tools served as the backbone of American industry used to build automobiles, airplanes, and a vast selection of consumer products.

Student interns work various machines in the Working Machine Shop, approximately July 3 - August 18. Call for details.

SPECIAL EVENTS

Sustainability Speaker Series
Sundays at 12:30 PM
June 3 through September 9
(See full schedule on Programs and Exhibits. July 22nd presentation begins at 2:30pm).

Saturday, August 18
9:00 am – 4:00 pm
19th Model Engineering Show & Family Maker Space
Windsor Recreation Center and the museum
Admission to both:
$10 for adults
$5 for students
Visit with New England’s finest model engineers, attend workshops and watch live demonstrations. Admission to this special event is not part of our membership benefits.

Saturday, September 22
Behind the Scenes Tours at 2pm and 3pm
Reservations required, 12 per tour, $10 ea. Call or sign up on website. Associate Members Level and up can attend FREE with their membership. Call for details.

Saturday, September 22
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.

Friday, October 5
5-8 pm
Girl’s Night Out
Celebrating Manufacturing Day. Introduce a Girl to Engineering at the museum Open House with speakers, demonstrations, and fun!

Sunday, October 14
Behind the Scenes Tours at 12:30pm and 1:30pm
Reservations required, 12 per tour, $10 ea. Call or sign up on website.
2017 Report on Giving

Thank you to our many contributors who support the museum. Every gift we receive is important. The gifts listed here were received between January 1, 2017 and December 31, 2017. Your contributions come in many ways – membership, annual fund, special purpose gifts, gifts in-kind, and those made in honor of or in memory of a loved one. We also thank our volunteers who give time and talent to the museum’s operations, events, the Board of Trustees, and working committees.

We received 244 gifts to the Annual Fund and 306 members joined or renewed. We welcomed 5 new corporate members and 14 corporate members renewed. If a donor is also a member, one of these membership abbreviations will follow his/her name: LM - Life Member; SM - Steward; PM - Patron; AM - Associate; FM - Family; and IM - Individual. Please let us know if we have made any errors in our listing of our donors and members.

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