

TOOLS & TECHNOLOGY Spring 2017

196 Main Street - PO Box 679 - Windsor VT 05089 - 802-674-5781 - www.americanprecision.org

Highlights from our 50th Anniversary Year

A Plan for our Next 50 Years!

In the past year, trustees and staff worked hard on a new plan. It circles back to museum founder Ed Battison's vision for strong engagement with the machine tool industry.

Plan Mission

- Improve our appeal to families to get involved.
- Create excitement about manufacturing careers.
- Educate towards the future, highlighting the connection between manufacturing and prosperity.

Plan Goals

- Expand our engagement with manufacturers.
- Assess our facility and collections
 how best can we use them?
- Transform our welcome area. As soon as visitors walk in, the excitement must begin!
- Display advanced manufacturing technology alongside historical innovation throughout the exhibits.

Our signature event, the Model Engineering Show & Maker Space in October, drew record sponsorships and record attendance.



Over 40 modelers, makers, and presenters made the show a grand success. We appreciate our underwriters Mascoma Savings Bank, Jane Osgood and Ted Hilles, Windsor Improvement Corporation, L.F. Trottier, Windsor Mansion Inn, Cota & Cota, and Blood's Catering.



Photo by Lars Blackmore

Thanks to the Gene Haas Foundation, our new film American Ingenuity at American Precision Museum launched in time for Manufacturing Week in October. The film is a call to action inviting youth to change the world through careers in manufacturing. It features Windsor students testing the underwater robot they built to help monitor the dam upstream from the museum. Below, EduFactor camerman works with Vince Moeykens and Kip Gaddis at the museum. Watch it on our website at american precision.org.



The Dorothy Morris Interpretive Area, and the Margaret Rothchild Garden were rebuilt and dedicated by the Morris Family in August. Left to right: Anthony Morris, Lee Morris, and Robert E. Morris Jr.



Visitors love talking with our student interns! We enhanced the Working Machine Shop by strengthening our safety program.



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



It Has a Bearing

Engineering brings science to life. Engineering is the way we solve the world's technical problems. Just like our mechanical forebears at the Robbins & Lawrence Armory in the 1840s, engineers today build solutions to create a better world. They use technology to solve medical problems, like creating a prosthetic hand to allow a person to type or write. They design and build equipment to make solar and wind power more

efficient and less costly. They create complex machines and systems to keep industry safe and clean for workers and for the communities where they reside. They are developing the technology for self-driving vehicles. Tomorrow, these autonomous vehicles will reshape our society in ways that can only be imagined.

"Let's work together to speak up for science and engineering in our schools and society."

Actionable engineering that shapes our world is built on research—in science, technology, mathematics, physics and more. The problem solvers of the future will continue to rely on the basic methods of science, to identify problems, record evidence, develop hypotheses, and test solutions.

Science and technology museums today have a big role to play in fostering scientific and engineering literacy in the communities we serve. Through exhibits and programs, we can help visitors understand the world of technology and nurture their curiosity – whether they are members of the general public or school kids developing career aspirations and setting educational goals. APM embraces our role of helping foster the next generation of problem solvers and innovators.

Today we live in a world where the importance of straightforward facts is frequently questioned. Today's world includes the possibility of declining investment in basic research that could threaten our country with an innovation deficit. We cannot afford to let this happen.

We invite our members and supporters to stand with American Precision Museum and other science and technology centers and speak up for science and engineering. The future of our country depends on us to do so.

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.

Board of Trustees

Chair Eric Gilbertson Montpelier VT

Vice Chair Steve Dalessio Drewsville NH

Secretary-Treasurer Bill Lynn West Lebanon NH

Gene Cesari South Ryegate VT Stephen F. Christy Lebanon NH

John Dumville

Royalton VT Christopher Gray

Springfield VT Daryl Hagopian

East Longmeadow MA

Ben Holleran Atlanta GA

Malcolm Mason

McLean VA

Lee Morris

Windsor CT Larry Schwartz

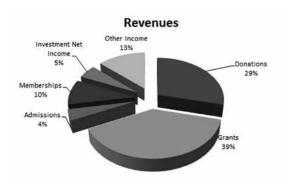
Clear Spring MD E. Hubbard Yonkers Bedford NH

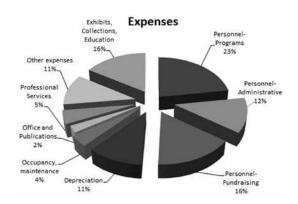
Staff

John Alexander
Museum Technician
Frank Hoffman
Director of Development
Ann Lawless
Executive Director
Kathy Marsh
Bookkeeper

Financial Information

The charts below reflect Revenues and Expenses for APM's fiscal year, May I, 2015 through April 30, 2016. The condensed balance sheet is available as a PDF from the APM website's home page.





Did you know that in 2016....?

- 4,905 people visited the museum;
 a 9% increase over last season
- 24 special tours and events
- 48 new donors contributed
- 22 new individual members joined
- 7 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.

Message from the Chair of the Board Eric Gilbertson

This year and the next several years look to be years of critical change at APM. Over the last year the American Precision Museum staff, Executive Committee and several Trustees have analyzed the past, present and future of the museum. We have concluded that the message, the exhibits and educational programs at the museum need to be more exciting for visitors—particularly younger ones. We also must better showcase current machined component manufacturing as providing good jobs. Without these changes it is clear that the ongoing viability of APM would be in doubt. The result of this thinking is the exciting new "Transformation Plan".



The Transformation Plan sets out a new path for APM. It calls for making the museum more exciting for young people and their parents, and for educating the public about the connection between manufacturing and prosperity in the United States. This year we will make small changes to the current exhibit to make the exhibits clearer to visitors. With help from machine tool builders and support companies, APM plans to show how the innovations created at the museum's site in the 1840s transformed into the machine tool industry of today. There is already significant support from the industry for this approach.

Since its founding in 1966 APM has always enjoyed a close working relationship with machine tool businesses, and their contributions have been essential. With U.S. manufacturing productivity at an all high time high, APM has every reason to expect that the Transformation Plan will increase our support from the manufacturing industry. The museum will be a venue that shows off the continuing innovation and invention that is the heart and soul of this dynamic sector of our economy.

To keep APM operating, we have had to draw on our reserves. The staff and Executive Committee have been improving our financial management so we better understand our fiscal position and what we need to do to have a balanced budget.

(Continued on next page)



Photo above: Model Engineering Show by Lars Blackmore

We have made adjustments that should enhance the performance of our endowment and our operations.

I want to thank the Executive Committee for their creativity and effort in making APM work better and the staff for keeping things going and working hard on the transformation. Special thanks go to Lee Morris, whose family has been supporting APM since its founding, Larry Schwartz, a new Trustee, and Chris Gray for their work developing our Transformation Plan and widening the path for the machine tool industry's investment in APM.

The challenge is raising the funds to make the museum sustainable and to implement the Transformation Plan. We need new Trustees, and more individual and corporate members and supporters to help with making this happen. We welcome suggestions on all aspects of the museum.

The building, collections and history at APM are far too important to lose. To succeed we must be tied to the exciting future of manufacturing.

Sincerely,

Eric Gilbertson Chairman, Board of Trustees

Make Your Mark on APM's Future

Consider joining The Mill Brook Society APM's Legacy Society

Would you like to ensure that APM will be here for future generations to enjoy? You can do that with a planned gift. The most common planned gift is a charitable bequest, naming the museum as a beneficiary. Is the museum already in your estate plans? If so, please let us know and your name will be added to our Mill Brook Society. You can remain anonymous too.

We partner with the Vermont Community Foundation on Charitable Gift Annuities and other planned gifts. If you would like to discuss planned giving options, please call Ann Lawless, Executive Director at 802-674-5781.



Sean Kersey (right) at APM's Model Engineering Show Photo by Lars Blackmore

In Memoriam

D. Sean Kersey (April 11, 1965 - March 30, 2017)

We are sad to share the news that our Trustee Sean Kersey passed away after a battle with cancer. Residing in Lebanon, NH with his wife Michelle and two children, Sean was Manager of Facilities and Maintenance and Environmental Health and Safety at Timken Aerospace in Lebanon. Sean was first elected to the APM Board of Trustees on July 9, 2013. Shortly thereafter he was elected as Chair, and led a series of transformations beginning with the meeting of our Board of Advisors in August 2013. Sean's insight, vision, and leadership were instrumental in the revision of our mission statement and the development of our Corporate Membership program. Sean led APM to focus less on the past and more on the future of manufacturing. Sean had spark, intensity and skill, and he will be greatly missed.



Corporate Members

In the 1840s, Robbins & Lawrence created a center of excellence in hand-crafted gunsmithing, patternmaking, and precision milling. Their work in this building set the stage for future manufacturing around the world. Their business model was based in apprenticeship, sharing of skills across firms, and investment in innovation.

Our corporate members listed below carry on these deep traditions even as they innovate and look to the future. Today, advanced manufacturing leaders continue to invest in new technologies creating new manufacturing jobs that fuel our economy. They support the museum's mission to tell the story of the machines and people that form the foundation and future of manufacturing.

Leader (\$10,000 or more)







Benefactor (\$5,000)















Associate (\$2,500)



Contributor (\$1,000)









Participant (\$500)



Machine Shop Participant

(\$250)







2016 Report on Giving

hank you to our many contributors who support the museum. Every gift we receive is important. The gifts listed here were received between January I, 2016 and December 31, 2016. 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, the Board of Trustees, and working committees. We received 244 gifts to the Annual Fund and 306 members joined or renewed. We welcomed 7 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.

Robbins & Lawrence Society

(\$2,500 and up)
Farley Family Charitable
Foundation
Jack and Dorothy Byrne
Foundation
Robert Van Etten Jacobs
Doug and Jean Loudon - LM
Lee and Diane Morris
Jane Osgood and Ted Hilles
Osgood-Hilles Charitable
Trust
Rick and Linda Roesch - LM
Margaret and Eric
Rothchild - LM
Merritt Roe Smith-IM

Innovators Society

(\$1,000-\$2,499) John Bainbridge Ir. Cone Automatic Machine Co. Charitable Foundation Steve Dalessio - FM John K. Grady Joseph and Patricia **Jablonowski** Anthony and Susan Morris Michael Newbold - LM Peter D. Rebar Barrie and Pat Sellers Kirk D. Stackhouse - PM Camiel and Anne Marie Thorrez - LM Vermont Automobile Enthusiasts

Precision Valley Society

(\$500-\$999) Mark Aldrich - FM Bryant Chucking Grinder Charitable Foundation Katherine Carter
German Gun Collectors
Association
Clark and Happy
Griffiths - LM
Seymour and Shirley Lehrer
Charles Leni - IM
Bill Lynn - IM
William C. Martin
Tom and Barbara Putnam
John and Emily Sands
Alex and Debra Slocum
Richard and Sheila
White - AM
Don Whitney - PM

Edwin Battison Society

(\$250-\$499) Liora Alschuler Iav Boeri John and Vivian Brown Ruth Carter Stephen F. Christy Newell and Kate Flather Shirley Grainger-Inselburg-AM Karl Gurcke Daryl and Eric Hagopian Fukuo & Tokuko Hashimoto James N. Heald II - LM Richard A. Johnston - AM Greg Kaufman Richard and Nancy Pitkin - PM Helen Samuels and Greg Anderson Gene Seidler - AM Mark Sharnoff Alden Sherman - LM Gary and Sigrid Sihler - AM Peter Wenk - AM Gil Whittemore & Anstis Benfield

The 1966 Society

(\$100-\$249) Robert and Esther Allen Dennis Bassett Edward and Judith Becker - AM Arthur Beutler Donald Brehm Michael and Pamela Brown T. Jack Carpenter Gene and Judy Cesari - AM Robert and Barbara Coleberd - IM Edmond and Anne Cooley - AM Christopher Costa Cota & Cota, Inc. Russell Craig Dennis and Anne Cross - AM Vincent J. DeMore - IM Rolf Diamant and Nora Mitchell - PM John Dryfout John Dumville - IM Mark Elrod and Judith Foulke - AM Christopher and Angela Evans - IM Five Twenty-five Foundation Darlyne Franzen Claudia Gabriel Iames and Donna-Belle Garvin - FM Eric and Clara Gilbertson - FM Jonathan and Stacey Glastris J. Douglas and Nancy Graham David Hallenbeck - FM James Hamilton and Judy Boucher Thomas A. Hammond - IM Robert and Lois Holter Glenn Hopkins - PM

Alan and Barbara

Huffman - AM

Thomas H. Hughes - AM Robert and Betty Johnson Robert B. Kancir - FM Ken Kamimura F. Terence King Ken Kranzusch Summer Joy Kuehn Roger and Carolyn Lang Ann Lawless Bill Lewis - AM David S. Lindquist - AM Nelson J. Lock Malcolm S. Mason Mr. and Mrs. Robert McAllister David C. McClary - IM Wayne McCutcheon - FM Iames L. McRae Ronald and Laura Mitchell James A. Monk Miles and Pat Mushlin E. Burr Nash - AM Nashua Community College John and Barbara Osborn Rudy Parhaniemi - IM Michael Protenic - PM Richard Powalka - IM John Rohlfs - AM Michael Schaefer Ralph H. Shepard - AM Jane E. Sherman - LM Stanley Shire - IM John J. Siergiewicz Jr. Ronald K. Smeltzer - FM Ernest W. Smith - AM John W. Snarski Jr. - IM T. Michael Speidel - IM Earle C. Stubbs John P. Tatlock - IM John S. Taylor - AM Peter Teale James Thompson - AM David and Patricia Toland - AM

Steven Wenk - AM Westminster Tool, Inc. A. David Wunsch - FM John and Ruth Wyman

Friends (\$I - \$99) Randolph Aev Howard and Mary Andrews - FM Tony Ashby - IM Charles and Lola Baldwin Kevin S. Barnev Gail Barton - IM Iris M. Berezin - IM Daniel Berth Robert W. Bernstein F. Steele Blackall William E. Blocklev Gael Boardman Joanna Bodenweber and Geoffry Fried - FM Andy Boyce and Jenn Boeri-Boyce Brandthropology Bruce and Elsie Brenner - IM Iames T. Brenner Miriam and Mitchell Brodsky - IM Iean and Richard Brown Alan and Nancy Bugbee - IM Sarah F. Carter Robert Chave Gregory Colling Damien Connolly Carolyn A. Coker William and Kathleen Corley Richard and Mary Corrigan Daniel Czajka Pama Dangelo Steve Danielson - IM Douglas and Kiyo Dawson Emery DeWitt Design Workshop Connie Filbin and Dick Corum Wayne Fischer - IM Kathaleen and Charles Giurtino - FM Michael Greenberg - IM Mr. and Mrs. Edward J. Goldman - AM Joseph Gresser Helen Greathouse Michael Harnett - IM

F. Leo Hickey - FM Richard Hoertel - FM Donald and Carolyn Hoke - IM Ben Holleran Jay R. Holmes Frank and Joyce Homan Glenn Hopkins - PM William N. Hosley Tom A. Hull - IM James and Marilyn Hurley Margaret Jackson Eric A. Jautz - IM Edwin and Sharon Jeffery Craig Jennings Benjamin E. Kaplan - IM Francis E. Kennedy - AM Ed Kercher Iames and Barbara Kerr Verna M. Kloos - AM Ronald and Anita Krauth - FM Andrew Krivenko - IM James H. H. Lampert Carl Locken Frederick and Margaret Lorenzen Steve Lubar George F. Luthringer - FM Seth Marks Joseph W. Martin III - IM Carol B. Martin - IM Donald E. Maurer William and Kristen McCartnev Diana McNamara David McPike Glenn and Barbara Meurer - FM Jeff Miller Jeffrey M. Milroy L. David Minsk Bruce Moseley Barbara and Frederick Naef - IM David Noves George Petry Marjorie Pierce and James Pallutto Sr. - FM Willis L. Platt - IM William and Ellen Rewinski - AM Clayton and Ann Robson Mark Sandefur Debra Shearer

Betsy Stefany Richard Stott William J. Tansey - FM John and Nida Tansey - FM Thomas K. Tate - IM Derek Trelstad Nathaniel and Helen Tyler Wayne Vaughn - IM Ben Wallace Paul Waltz - IM Robert Wells Mike and Rosemary Whitney Jeffrey and Jill White Jack and Clarice Willis - FM Adrian Wolverton - IM Alan and Beverly Young - IM Greg and Lucy Young - FM

In Memory Of

Detrich Apel German Gun Collectors Association Jeff Miller John Aschauer & Hilda Kelsay Claudia Gabriel Ed Battison Nathaniel Tyler III Robert Brown Jean Brown Charles Carter Ruth Carter Katherine D. Carter Charles Greathouse Helen Greathouse Thomas Hallenbeck David Hallenbeck Thomas Levesque Mrs. Thomas Levesque Bob and Dot Morris Anthony and Susan Morris Frank and Shigeo Nubu Ken Kamimura Robert W. Powalka Richard Powalka Donald M. Rebar Peter Rebar Reuben Thundercloud Donald Weight Lori Steadman Jeffrey M. Milroy

In Honor of

Walter Czajka Daniel Czajka Eric Gilbertson
Five Twenty-five
Foundation Inc.
Clay Washburn
Connie Filbin &
Dick Corum

Gifts In-Kind

Albert Albrecht
Robert K. Allen
Association for Manufacturing
Technology
Blood's Catering
Susan Bonthron
Steve Dalessio
Gardner Business Media. Inc.
Edgar Grallert
Tyler, Simms, & St. Sauveur
WCAX-TV

Special Gifts

Blood's Catering
Cota & Cota
Steve Dalessio
Harpoon Brewery
Mascoma Savings Bank
Lee Morris
Jane Osgood and Ted Hilles
Rick and Linda Roesch
Snapdragon Inn
L.F. Trottier
Windsor Improvement
Corporation
Windsor Mansion Inn

INDIVIDUAL MEMBERS

Steward

(\$500) Joseph Bozik Robert Forrant Bruce S. Nicholas

Patron

(\$250) Kip & Sandy Bergstrom Coastal Safety LLC Ralph and Barbara Hegman Daniel L. Hertz Jr. Chris Michaud

Gary Hamel

Bob Shields

Christopher Steele

Nemes Machine Co. Joseph Nemes David B. Russell Richard Sacco Augustus P. Stager III Larry L. Vanice

Associate (\$100)

Frank and Betsy Bechdolt Roger Bradford and Martha Stanton Robert and Patricia Boyd David and Geneva Carter Warren Collins James H. Cudlip Dennis Daugherty Richard and Mary Everett Silas Felton Mason Ferry Robert and Beth Finucane Robert Fearing Douglas Freund George Gardiner Ernest and Shelah Gaudet Robert and Teresa Geddes Edward and Benita Goldman Kimo Griggs R. Avery Hall and Andrea Rogers Robert and Valerie Hall Marie Hamel John Hikory and Sally Bemont Greg Holdsworth Robert A. Hummel Bill and Elizabeth Huxhold Larry and Josette Jones Thomas Kearns Diane Kemble Herman and Ann Kubowski Cliff LaBounty Bob and Vera Lake Don and Surry Latham Kendall and Marcia Manner David and Maryellen Mellen

D. Bruce Montgomery Jeffrey and Patricia Myers-Hayer Nancy Nash-Cummings & Richard Cummings Charles and Carol Nettleship III David and Mary Otto Glen Paquette Paul Philips Gordon and Patricia Richardson Tim and Nancy Schafer Lawrence Schultz Martin Sornborger Marcos Stafne Geoffrey Stewart Byron Stutzman Donna Sweaney and Bill Ballantyne David and Mary Talbot Barbara Walker Paul T. Wardwell James Zambrano

Family

(\$55)Kevin Alix Philip and Mary Bell Grant and Susan Benson Eric Butler Frank and Beryle Carey Ronald and Jane Clark Leonard Day Peter DeRose Edward and Geraldine Ferguson Harold J. Frost Christiana Gianopulos and Paul Butler Tom and Mary Anne Graham Christopher Gray Jonathan Hall David H. Hanes Emmons and Nora Hathaway Charles and Louise Horsken Steve and Barbara Jenne W. Thomas Johnson Albert Kandarian Ir. John S. Kauer and Barbara Talamo Dean Kramer Thomas and Nancy Perley and Donna Lund

John and Cathy Mandell Jeff and Connie May John and Mary McCann Timothy Loche Montgomery Michael and Barbara Morello J. Cheston and Nancy Newbold Gary and Nancy Olney Iames and Krisha Pennino Iulian and Frieda Reitman John and Martha Robb Scott and Lois Rossiter Debra Shearer Iim and Iris Sindelar Joseph & Kelley Spoerl Sandra-Leigh Sprecker Dean Stetson Steven and Arline Stocking Pete Thomas Edmund and Ann Tremblav Robert and Helena Vogel Bob Wilson Jeffrey and Maureen Woods Herbert and Wendy Yohe

Individual (\$35)Iames Atkinson H. J. and Elaine Barth Ioe and Michelle Bartolick Donald Bierly H. G. Brack Christopher Brown Frank Casev Richard Chandler Ronnie Clapp Gary Course Glenn Danner Lloyd Davis Wallace Day Howard De Rosa John C. DeJong William Douglass Michael Dudley Daniel Fox Gary P. Francke Michael Gallagher

Robert and Diane Gardner Barbara George Peter Gorst Allen Hase Michael Helms Ruth Hewett Keith Hezmalhalch Wisconsin Historical Society Frank and Joyce Homan Bailey Howe Library UVM Dan Keebler Emil Koller Kremer

Bob Kovach Richard and Jane John and Judith Ladd Bill & Barbara Lemieux Larry Magee Robert and Alice McGinnis Richard Meyer Peter Mitchell

Bruce M. Moseley John and Sharon Muendel John Ordyk

Herschel and Andrea Rabitz Michael Read John Rochelle George and Patricia Rogers

Karl and Joan Ruger Mark and Patience Sandrof Jeff and Julie Schara Patrick M. Sheary Byron R. Skinner Edward Smith Smithsonian Institution

Libraries Grant Solms John Sorge Elisabeth B. Sturges Joshua Sussen-Soechting Jamie and Mary Swan Bradley J. Thompson Rae Tober

University of Delaware, Morris Library Sherman and Kathleen Walton Ann W. Wing

Life Members

Suzanne Richardson Daniels J. Douglas Graham Clark Griffiths Iames Heald Charles Hutchins Richard Kuba Douglas Loudon Michael Newbold Alfred Purcell Ir. Frederick Roesch Margaret Rothchild Alden Sherman Iane Sherman Camiel Thorrez Jeoffrey Thorrez H. R. Thorrez E. Hub Yonkers

Volunteers

Dan Batchelder Lakota Blaisdell Shirley Grainger-Inselburg Anna Grallert Joseph Gresser Bill McCarthy Tom McCune Vincent Moeykens Gaylord Newcity Wallace Osgood Emma Saucier Sean Smeland Colt Stewart Bruce Van Houten Clayton Washburn Donald Whitney Steve Wright Herbert C. Yohe

Thank you to all our donors, members, and volunteers.

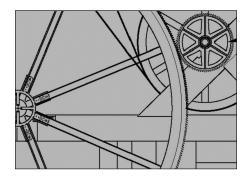
Exhibits and Events 2017

EXHIBITS

Waterwheel and Millwork

Explore a new, working three dimensional model to follow water flowing from the mill pond via a channel outside into a box flume inside to the 18 foot diameter breast-style wheel, and then back out into the brook. The wheel powered machinery on the upper floors.

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 I800s 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

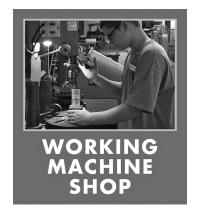
In the years following the Civil War, the tools of armory practice were put to work making consumer goods that required more accuracy.

Industrial Might

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

How It's Made Today

New exhibit elements will explore modern manufacturing techniques.



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



196 Main Street Windsor VT 05089 802-674-5781

PROGRAMS

Sunday, June 11 2:00 pm Manufacturing Today

Join Economics Professor Dr. Marie Duggan from Keene State College to hear her perspective on manufacturing today. Most jobs in precision tools are not going overseas right now. The firms creating stable middle class jobs tend to be independent, mid-size firms. What's gone wrong and how can we nurture the independents?

Saturday, June 17 2:00 pm Expert Insight Tour

Join museum trustee Steve Dalessio on a walk-through of the exhibit hall as he shares his knowledge about favorite machines on display, and discusses the evolution into new machines in today's manufacturing environment. He will be bringing show and tell items to share. Steve is General Manager and Partner at Lake Machine Co. Inc. in Claremont NH and enjoys sharing his passion for machining technology.

Sunday, July 9 2:00 pm

Family Maker Day: Make a Maze

Roll up your sleeves, use your ingenuity, and gather items from our stash of found materials to create a marble maze to take home.



Sunday, July 23 FREE ADMISSION DAY 2:00pm Of Wheelmen, The New Woman, and Good Roads: Bicycling in Vermont, 1880-1920

University of Vermont Professor Luis Vivanco explores the fascinating early history of the bicycle in Vermont.



During the 1890s, enthusiasm exploded statewide as bicycles became safer, women took to the wheel, roads improved, and retailers developed novel advertising techniques.

Although popular interest waned, the bicycle was tied to important changes in industrial production, consumerism, road policies, gender relations, and new cultural ideas about auto-mobility and effortless speed.

Sunday, August 6 2:00pm From Paper to Part

Join trustee Steve Dalessio as he shows several different technologies for taking a design to implementation. First, see a slide show about the design process, then follow Steve as he shows different ways of making his part using different machines in the exhibit, from the Serial #I Bridgeport mill to a 3D printer.

Sunday, August 20 FREE ADMISSION DAY 2:00pm Off Target: What Hollywood, Journalists and Shooters Get Wrong About Guns

This lecture and Q&A session examines how our perceptions of firearms have been distorted by media and folklore. Such distortions—about the mechanics, ease of use, and lethality of guns—have seriously hindered public discussion about the regulation of firearms. Dr. Mark Timney is an award-winning mass communications practitioner and educator with more than twenty years of professional experience in the mass media.

Saturday, September 23 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, September 23 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.

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 10:00 am - 5:00 pm Memorial Day weekend through October.

Early October Upper Valley Manufacturing Week

APM coordinates student tours of manufacturing companies throughout the region during this week-long workforce development program.



Saturday, October 28 9:00 am – 4:00 pm 18th Annual Model Engineering Show & 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.