We Are ... Molding the Future

FEF
Foundry Educational Foundation

SHAPING THE METALCASTING COMMUNITY

www.fefinc.com | 847-490-9200 | info@fefinc.org
We are... Molding the Future

We all remember the determined character from the nursery book, The Little Engine That Could, trying so hard to make it up the hill. Today’s college students are no different – they are working very hard to make it to the end of their academic journey.

A scholarship gift to support FEF students is an important step in that journey. These students are the future of the metalcasting industry and we need to encourage their passion and sustain their progress.

A scholarship gift is also a unique business opportunity as you consider the cost of training and replacing retirees. FEF students come ready to work, they know and are passionate about metalcasting, and their academic and technical skills include the most state-of-the-art technologies and advanced industry experiences. There is no other business partnership that will bring a bigger return on investment, than a scholarship gift to FEF.

Build your company and support our industry’s new wave of talent with a scholarship gift today!

We encourage you to join other industry leaders and invest in the future – partner with FEF and our network of universities to make sure our industry continues to be innovative, creative and long-standing.

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A Message From the Executive Director

Thank you to all our FEF supporters. During the past year we have focused on providing additional resources to educators to meet their ever-growing demand for great technical talent for this industry. Gains in contributions from our generous donors have allowed FEF to allocate an additional 9% towards programs and scholarships. This effort to increase resources reflects directly in eventual output of graduates taking jobs in the industry – up again this school year.

New and recent initiatives like the alumni ambassador program, grants for AFS student chapters, and adding additional schools to the FEF network are aimed at attracting more students to FEF school metalcasting programs.

FEF must continue to grow. With the help of our community of FEF Alumni and Friends, Educators and Administrators, Industry and Associations, we will work together to make sure we have eager, passionate, and well-developed talent ready to shape metalcasting well into the future!

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I think I can, I think I can – Scholarship Support is Key

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Brian Lewis
Alumni Ambassadors – On the Road

Do you remember what you were doing on Saturday, September 15, 2018 – at approximately 11:00am? Well, if you were an FEF alumnus or a current student from Penn State, Penn State Behrend, or Kent State, you might have been having a great time at an FEF Alumni tailgate party prior to the “football game of the year” – Penn State vs Kent State.

Or how about Saturday, April 27, 2019 – do you have fond memories of your activities for that evening? FEF alumni and current students who were attending CastExpo spent a nice evening enjoying good food and camaraderie at Skyview Atlanta.

These are just two of the many events that have been sponsored by the FEF Alumni Ambassador Program during the 2018/19 school year. Other occasions included open-pour events at several schools, receptions at various industry gatherings, participation at AFS Chapter golf outings, and company sponsored get-togethers for employees and FEF students.

The goal of the Alumni Ambassador Program is to keep FEF students engaged and involved with FEF and our FEF schools – following their graduation. In addition to events, we encourage alumni, as FEF ambassadors, to make it a point of visiting “their” school or one of the FEF schools in their area: to encourage current students to continue their path into the metalcasting industry; to help professors secure resources for their programs; and to be a part of a support network for students as they join our industry.

Watch your email for announcements of future events and be a part of our growing family!
We Are ... Molding the Future

As the past and current Presidents of FEF, we are so impressed with the new young talent coming from our FEF network of schools and their passion for the metalcasting industry. FEF’s mission has stayed the same since its founding in 1947 – educate, support and generate new talent for the metalcasting industry to ensure its strength and development. As our industry continues to evolve and change, FEF is also evaluating how we should expand and refine the mission to better serve the needs of our industry.

One area of expansion is focused outreach to our alumni. With thousands of FEF alumni working in the industry, the legacy of FEF continues to broaden. We know that knowledge of our mission and success of our graduates need a wider recognition and appreciation. Our plan is to develop our Alumni Ambassador program further and deploy our alumni as “champions” for FEF, to help us continue to achieve our mission. As former FEF students ourselves, we encourage all past FEF students to become involved with the Foundation and help us to guide and challenge the current generation of young talent.

Additionally, we are tasking the FEF Board to address the future of the Foundation – our generative evolution – to shape our objectives and to define our next steps in relation to our industry partners, our schools and our community. Thinking this way will bring about inspiring discussions that will determine the best course of action in an ever-shifting world.

Still, FEF remains committed and steadfastly focused on our mission – bring young, passionate talent to our industry to ensure growth and success for everyone.

Kelley Kerns

John Grahek

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* = New board member
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The Ambassadors – FEF Board of Directors

Our 40-member FEF Board of Directors is a diverse group that share a wide range of knowledge of and experience in the metalcasting industry, ensuring the continuing success of FEF universities and students. Their commitment as **Ambassadors for FEF** is a shared vision, and their passion for our mission and long hours spent “waving” the FEF flag, create opportunities for the Foundation.

Whether they are presenting FEF at AFS Chapter meetings; mentoring students and providing experiences through tours and special activities; creating connections for internships and co-ops; hiring our young talent; or providing leadership to school advisory boards, the FEF Board of Directors is a force for change and growth in the metalcasting industry.

*We thank our FEF Board of Directors for their service and commitment to the FEF mission!*

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Generative Thinking

FEF has been working on a Generative Thinking method – that is, considering how we can “Govern From the Future.” During this process, the FEF staff and Board of Directors asked the following generative questions:

How should we respond to deep changes in the metalcasting industry, secondary/post-secondary education, and the future learning needs of students? How will the FEF model need to change over the next 10+ years?

Our Board Committees have been doing great work on this very visionary way of thinking as we plan for FEF’s future. Stay tuned.
Providing Unique Experiences for FEF Students

FEF has been a grateful recipient of Family Endowments. Among these, two very generous benefactors have allowed the Foundation to fund critical student engagement activities: the HMR (Henry M. Rowan) Family Foundation and the Keough Family Foundation.

Coincidently, many students tell us that the familial feel of the metalcasting industry is among the qualities that attracts them to it. Sometimes we like to say FEF stands for “Foundry Excites Family.”

Student-industry engagement activities help FEF attract and retain students. Over and over, students tell us that while the program and the professor at their institution made them interested in metalcasting, engagement with industry professionals keeps them engaged and passionate about a career in “the biz.”

The generosity of all donors is important as it helps our students to continue their academic journey, but gifts from the HMR Family Foundation and the Keough Family Foundation have been used to create unique experiences that will encourage FEF students’ growth as metalcasters.

“The HMR Family Foundation Board members were impressed to see the various programs and opportunities the Foundry Educational Foundation supports—those that bring awareness to the metalcasting industry and help grow the leadership skills for students of all ages. Mr. Rowan would be pleased to see the excitement and passion the Foundry Educational Foundation puts towards expanding the interest of young students for a career in metalcasting.”

HMR Family Foundation

Recently, this support allowed FEF to:

Bring 179 students to Atlanta for AFS CastExpo 2019, allowing them to experience all that the metalcasting industry has to offer. This included learning about new and advanced technology, attending the technical presentations, and meeting many of the nearly 5,000 industry professionals in attendance from all parts of the metalcasting industry.

Provide additional support from the annual scholarship program and continue special campaigns to develop additional funds to ensure state-of-the-art laboratories and unique student experiences.

Provide grants to over 16 student chapters to assist student organizations to recruit new members, organize efforts to engage other young people such as Boy Scouts and Girl Scouts, and other special projects.

Support and market multiple open “Foundry Nights.” At these events, funding everything from pizza to supplies helps to engage hundreds of students from middle school to college, and to initiate their exposure to metalcasting with activities that are fun and creative!
AFS Student Chapters nationwide are valuable connecting points for students interested in metalcasting to learn more about the field and to engage the metalcasting community at large. Student chapters offer opportunities to meet friends and experts in the many facets of the industry. Most important, the peer-to-peer influence that a student chapter initiates will help to attract and retain young talent for the metalcasting industry.

For a second year, the generosity of the Henry M. Rowan Family Foundation has made it possible for FEF to support student chapters through grants. The goal of these grants is to expose more students to metalcasting earlier in their college careers. The chapter grants were made available for projects that included: expanding recruiting efforts, increasing student involvement through growth in extra-curricular activities, and executing outreach efforts beyond the university level.

Grants approved for this school year for student chapters include:

- **Youngstown State**, which attended CastExpo and also participated in both the SE Regional Casting Competition and the SFSA Viking Axe Competition (at CastExpo). Their casting competition projects are shown here.

- Several students from **UAB** attended the AFS SE Regional event in Savannah, Georgia, this spring and submitted two castings for the casting competition (pictured here).

Many of the funding requests involved help with travel expenses to the AFS CastExpo. In all, **179 students (representing 25 FEF schools) attended the event held in Atlanta, Georgia**. An industry event like this one provides unparalleled and immeasurable opportunities for students to learn about the industry and to establish connections with potential employers and co-workers. It’s important for FEF, AFS, and our schools to encourage students – especially non-seniors – to attend such events so that they will be exposed as early as possible during their college career to the metalcasting industry and all it has to offer.

Students that attended the 2019 AFS CastExpo represented the following FEF schools: Arizona State, UAB, Cal Poly-Pomona, Cal Poly-San Luis Obispo, Georgia Southern, Inst. Tecnologico de Saltillo, Kent State, Univ. of Michigan, Michigan Tech, Missouri Univ. of Science & Technology, Mohawk College, Univ. of Northern Iowa, Ohio State, Penn State, Penn State-Behrend, Pittsburg State, Purdue Univ., Saginaw Valley State, Tennessee Tech, Texas State, Virginia Tech, Western Michigan, Wisconsin-Milwaukee, Wisconsin-Platteville, and Youngstown.

- The **University of Wisconsin-Madison** used funding to organize and present Foundry Fun Nights, at which many students were exposed to different applications of metalcasting and examples of casting – including an iron pour volcano demonstration and casting personal letter openers, jewelry, etc.
During the 2018/19 fiscal year, FEF Staff and Board Members traveled to many events, chapter meetings, school activities, certification visits, board meetings, and companies to demonstrate the value of FEF and to ensure our mission continues to bring new talent to the industry.

Among their destinations this year have been: Pittsburg State University for the Annual FEF Board Meeting; AFS Chapter meetings in several states, including Alabama, Indiana, Illinois, Pennsylvania, Massachusetts, Michigan, Wisconsin, California, Texas, Missouri; CastExpo in Atlanta; AFS Wisconsin Regional; AFS Southeast Regional; many industry company visits; and certification visits at the University of Alabama, Pittsburg State University, and the University of Wisconsin-Platteville. Happy Travels!
We Are ... Molding the Future
2018 Walsh Award

Best kept secret. Each year the Foundry Educational Foundation presents the prestigious E.J. Walsh Award to one person who not only supports FEF with his or her time and resources, but who also has been a metalcasting professional whom students may emulate.

Also, as much as it’s possible, we try to surprise the Walsh Award recipient. In this, we did a good job in 2018 when we honored Wil Tinker. In his own words, Wil was “blown away” by the award and the surprise of the presentation. Really, he should not have been surprised. There are not very many industry professionals more deserving of the E.J. Walsh Award than Wil Tinker.

Wil is the President of Tinker Omega Sinto, which he started (in his living room) in 2001. He is a 1981 graduate of Kent State and has served on the FEF board for over 25 years, including as the 2017 FEF Board President. Wil continues to remain active in FEF through committee work, as a member of FEF school advisory boards, and as a board member. In addition, Wil has hired several FEF students over the years and many FEF schools have benefited from his generous donation of foundry equipment for their metalcasting labs.

“If industry leaders 60 years ago had not ‘given forward’, I would not be in this industry. It would be totally ungrateful of me if I don’t do everything possible to further FEF for the next generation,” Mr. Tinker said. “We have successfully placed equipment in 12 FEF Universities via our FEF Discount program. It is critical for students to experience real industrial processes in their labs and we get great satisfaction in helping them.”

FEF/AFS Distinguished Professor Award

Another surprise. Not really. One of the longest-tenured FEF Key Professors is Russ Rosmait of Pittsburg State University. Rosmait has been an FEF Key Professor for over 30 years (having started his teaching career in 1987).

Besides his very active work as a professor, Russ finds time to serve the metalcasting industry on several national boards, including with AFS and the Investment Casting Institute – where recently he received their 2018 Outstanding Contributor Award.

Russ is also very involved in multiple AFS chapters in his region. He has achieved several academic accolades, including recent election to serve on his school’s national board of directors. The list of FEF graduates from the Pittsburg State University program now working in the industry is a veritable “Who’s Who” of metalcasting.

“Being presented the FEF/AFS Distinguished Professor Award shows the gratitude the industry has for me, our program at Pittsburg State University and the students we send to the metalcasting industry. I am extremely thankful for what FEF and AFS have done for my career, and for our metalcasting program at Pittsburg State University.” – Russ Rosmait
New at the 2018 College Industry Conference was the *Company/Student “Speed Networking” Job Fair*. This introduced one more opportunity at the annual event for companies to meet with students and to recruit potential employees in an informal setting. This occasion allows for additional relaxed conversations, short interviews, or just plain getting to know someone!

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**FEF Graduates**

The number of FEF graduates becoming metalcasting industry professionals continues to rise. This is very important, as foundries, diecasters, and suppliers have an ever-increasing demand for technical talent. FEF is working closely with all of our network schools to expand recruiting and retention efforts.

Some of these initiatives include:

- Increasing the number of students receiving scholarships (including more scholarships for FEF affiliated schools);
- AFS Student Chapter Grants for recruiting efforts;
- Modeling “foundry program” retention rates based on college admission data;
- Expanding the number of FEF affiliated schools;
- Creating FEF ambassadors as part of the Alumni Ambassador program

These graphs illustrate the intended effect of providing more dollars for programs and scholarships which have a direct benefit in driving an overall increase in the number of graduates entering the metalcasting industry.
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Note: These are companies who made a contribution to FEF between 5/1/18 and 4/30/19

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Tom Tatman
Erin Thiel
Jerry Thiel
Will Tinker
Greg Tordoff
Trent True*
B. Lee & Carol Tuttle
Jennie & Bob Tuttle
Kees Volmert*
Mike Walker
Bo Wallace*
Doug & Sandy Warner
Richard & Shirley Waterstrat
Darryl Webber
Glen Weber*
Edward & Jean Wedbush
Aaron Weir
David Weis
Thomas White
Mike Williams
Dan Wilson
James & Katherine Wilson
Sid Wirsing*
Dan Withey
Stewart Witter
Rich Ryd
Dottye Wolf
Gary Wolfe
Kip Woods*
Matt Wosoba
Kelly Zbiegien
Jean & Mike Zeigle
Certified Schools

UAB
Austin, LeJuan
Brown, Jenni
Ellis, Timothy
Foti, Tristan
Gilroy, Ryan
Haas, Nick
Herron, Katelyn
Jindal, Nik
Landreth, Lauren
McCrory, Sarah
Parks, Colton
Rawb, Sabah
Riley, Rhyan
Stevens, Harrison
Williams, Alyssia
Williams, Ryan
Wilson, Ramon
Zamora, Victor

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Alex, Chappell
Arnold, Cameron
Athey, Iain
Becker, Hailey
Burke, Logan
Hunt, John
Kiley, James
Marrapodi, Kristen
Olivier, Austin
Pavel, Michael
Roze, Jonathan
Tasci, Pauline

Inst. Tec de Saltillo
Alvarado, Karen
Alvarez, Raúl
Castaneda, Hilda
Garcia, Gabriela
Hernandez, Jorge
Ibarra, Javier
Ledezma, Américo
Marines, Alicia
Mendez, José
Narvaez, Franco
Ochoa, Susana
Oyervides, Ivonne
Rodriguez, Nallely
Valenzuela, Salvador
Viesca, Fernando

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Angermeyer, Kyle
Bataglia, Samantha
Bever, Joseph
Bow, Parker
Cunningham, Patrick
Dahal, Saroj
Deibel, Angela
Gooden, Nick
Hamley, Timothy
Kearns, Brigid
Makaluco, Brennan
Nelson, Michael
Palmer, Tristan
Petit, Joshua
Reed, Michael
Roman, Sara
Soukap, Chad
Stephens, Erik
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Amar-Fox, Katie
Beaudoin, Gregory
Beeker, Yani
Bushong, Lauren
Clancy, Olivia
Deaton, Devin
Drumm, Morgan
Eddy, Simon
Gazdecki, Michael
Heidelberger, Erin
Itchae, Lucas
Kiser, Katelyn
Kroes, Kendal
Russell, Katherine
Schini, Oliver
Schoeder, Sidney
Simpson, Riley
Sillner, Kurt
Spande, Madison
Steer, Ashlyn
Treonore, Brendan

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Anthony, Steen
Arant, Stephen
Bader, Logan
Boettcher, Joseph
Culver, Cassidy
Dunsford, Kyle
Ellerman, Michelle
Gillenwater, Reno
Groth, Frederick
Habecker, Perrin
Hatley, Teddy
Hawickhorst, Caroline
Hoffman, Andrew
Holtgrewe, Kelsy
Huxol, Jacob
Jones, Rachel
Klafshen, Ethan
Long, Hollis
Ludden, Vivian
Martinez, Aileen
Piston, Michael
Pugh, Wayne
Richards, Tyler
Sifire, Ife
Summers, Jake
VanDyke, Ryan
Vogel, Scott

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Butcher, Dallas
Clark, Richard
Huynh, Kathy
LaCroix, Brent
Robinson, Sierra
Rogers, Timothy
Urquico, Ernest
Woolley, Cameron
Zheng, Weijia

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Alverno, Maria
Campbell, Aaron
Christensen, Sam
Clemmons, Taylor
Eri, Craig
Gallagher, Taite
Hall, Caitlyn
Hinchman, Landon
Klein, Taylor
Knapp, Austin
McAllister, Mark
Myers, Brooke
Schmidt, Nathaniel
Sells, Bryon
Thorson, Nebraska
Trent, Keelan

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Braff, Adam
Lewis, Troy
Moodispaow, Michael
Ridgeway, Colyn
Ridgeway, Sarah
Vilcheck, Rebecca

Penn State
Bartok, Kylan
Bate, Casey
Goleman, Dayne
Hasbrouck, Christie
Henderson, Ryan
Previte, Ben
Rose, Andrew
Snyder, Cody
Stas, Kenneth
Torri, David
Winkler, Daniel
Yao, Michael

Pittsburg State
Bringer, Pierce
Jost, Franklin
Nordic, Slade
Paddock, Michael
Roseberry, Logan
Speer, Benjamin
Sutherland, Adam
Williams, Jacob
Wilson, Lucas

Purdue
Kiser, Abel
Nobles, Jacob
Parish, Trevan
Quillin, Sean
Russell, James

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Banks, Hayley
Goodwin, Kevin
Houston, Thomas
Meacham, Benjamin
Petether, Clay
Stiefel, Daniel

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Boles, Erin
Carroll, Sean
Imhoff, Theron
Jutte, Kathleen
Karney, Andrew
Lane, Nathan
Moore, Steven
Pearson, Landon
Risk, Alex
Royal, Devin
Shepard, Zachary
Wilson, Jenna

Virginia Tech
Benson, Kenneth
Carr, Cameron
Corral, Audrie
Eiler, Ben
Fontana, Elizabeth
Holmes, Michael
McCombs, Eric
Scherlmann, Anna
White, Jeremiah
Zurita, Brayand

Western Michigan
Atherton, Lindsey
Booth, Jacob
Dwyer, Kevin
Glascocck, Zachary
Hemer, Owen
Lonsbery, Pierce

Wisconsin-Milwaukee
Behera, Swaroop
Beining, Michael
Brown, Kyle
Das, Sourav
Elsharef, Ahmad
Jamal, Muratha
Jin, Jie
Rajak, Goyko
Siezak, Kevin
Wollenberg, Todd
Wolfman, Justin
Young, Pablo

Wisconsin-Platteville
Bollig, Lane
Breuer, Andrew
Connelly, Madeline
Creamer, Nathan
DeWitt, Aaron
Dufek, Damian
Dumas, Isaiah
Francis, Andrew
Hanson, Leo
Keli, Eljiah
Linstedt, Cody
McDermott, Andrea
Orlikowski, Derek
Rouse, Kennaniah
Talbot, Morgan
Werner, Abigail

Affiliated Schools

Arizona State
Hall, Emery
Makkonen, Hanna

Central Washington
Skerbeck, Ryan

Eastern Michigan
Wilson, Marc

Georgia Southern
Goodson, Trenton
Harold, Aubrey
Liggitt, James
Thomas, Michael
Windham, Michael

Univ. of Michigan
Couture, Cheyenne

MSOE
Felhófer, Samantha

Penn State Behrend
Baker, Eric
Craig, Jackson
Elliott, Branson
Esterline, Noah
Flanagan, Sean
Garnier, Nick
Hankey, Austin
Makris, Emmanuel
Nolf, Amber
Snyder, William

Saginaw
Korchinski, Kaylee

Wisconsin-Madison
Lallensack, Evan
LeTourneau, Evan
Muetting, William
Penn, Roman
Walker, Hannah
Youngstown State
Hart, Rachel

Other Schools

Adcock, Emma
Auffenberg, Brian
Effah, Joel
Halani, Rizwan
Markie, Ash
Seidler, Ryan

Patel, Prayag
Perry, Jacob
Raynor, Eric

We Are ... Molding the Future
### FEF CERTIFIED SCHOOLS - 2019-2020

<table>
<thead>
<tr>
<th>University/Institution</th>
<th>Key Professors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Univ. of Alabama – Birmingham</td>
<td>Charlie Monroe</td>
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<td>Laurentiu Nastac</td>
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<td>Cal Poly-Pomona</td>
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<td>Paul Sanders</td>
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<td>Laura Bartlett</td>
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<td>Alan Luo</td>
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<td>Penn State University</td>
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<td>Bob Voigt</td>
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<td>Fred Vondra</td>
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<td>Texas State</td>
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<td>Alan Druschtitz</td>
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<td>Western Michigan Univ.</td>
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<td>Sam Ramrattan</td>
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<td>Kyle Metzloff</td>
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<td>**Worcester Polytechnic</td>
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<td>*Carl Soderhjelm</td>
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### FEF AFFILIATED SCHOOLS - 2019-2020

<table>
<thead>
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<th>University/Institution</th>
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<tr>
<td>Arizona State Univ.</td>
<td>Mary Neubauer</td>
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<td>*Rob Carter</td>
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<td>Erik Lokensgard</td>
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<td>*Mingzhi Xu</td>
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<td>Univ. of Michigan</td>
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<td>Tim Chambers</td>
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<td>Milw. School of Engineering</td>
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<td>Matt Panhans</td>
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<td>Penn State – Behrend</td>
<td>Paul Lynch</td>
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<td>John Perepezko</td>
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<td>Youngstown State</td>
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<td>Jason Walker</td>
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On Tuesday, November 27, FEF alumni participated in a friendly fundraising competition as part of the Giving Tuesday national fundraising day. Alumni, friends of FEF, and current students were asked to support their “favorite FEF school” by donating at least $10 to the FEF scholarship fund.

More than $25,000 was raised during the campaign and the winning school with the highest percent of participants was Virginia Tech.

The success of FEF students and schools can only endure with the support of generous alumni and friends. We thank everyone who participated in 2018.

FEF will again do a school competition on Giving Tuesday 2019 – December 3. SAVE THE DATE and encourage other graduates to participate in 2019.