



The Mission Continues



2021-2022 Annual Report

Foundry Educational
Foundation

Celebrate
the History

Engage
the Future

Celebrate Our History



- 1947 – FEF Incorporated
- 1947 – Original/Founding Societies
 - AFS
 - Gray Iron Founders Society
 - Malleable Founders Society
 - Non-Ferrous Founders’ Society
 - Steel Founders’ Society of America
 - Foundry Equipment Manufacturers Association
- 1947 – Original FEF Schools
 - Case Western
 - University of Cincinnati
 - Cornell University
 - Northwestern Technological Institute
 - University of Wisconsin-Madison
- 1947 – First Executive Director (George Dreher)
- 1953 – Second Executive Director (E.J. Walsh)
- 1963 – First College Industry Conference (CIC)
- 1964 – First Endowment Gifts
 - AFS Chicago
- 1981 – First E.J. Walsh Award (Edward Walsh)
- 1983 – Third Executive Director (Bill Sorensen)
- 1995 – Pam Lechner hired
- 1989 – First Distinguished Professor Award (Carl Metzloff – Erie Community College)
- 2004 – FEF establishes Affiliated School Classification
- 2004 – Saugus Society Inauguration
- 2007 – Casting Our Future Now Endowment Campaign
- 2014 – Fourth Executive Director (Brian Lewis)
- 2015 – Endowment Fund Reaches \$7.5 million
- 2015 – First Full time Fundraiser Hired (Maureen Gerard, CFRE)
- 2016 – First Key Professor Endowment Campaign (UW-Platteville)
- 2018 – New Alumni Ambassador Program established (New role for Pam Lechner)
- 2019 – Hiring of Fourth Staff Person (Nick Bacik)
- 2019 – FEF Refreshed Strategic Plan – Engage Our Future Planning
- 2020 – Endowment Fund Reaches \$12 million
- 2020 – Cancellation of in-person CIC
- Virtual Programs elevated for Students, Alumni, Industry
 - FEF webinars
 - Facebook Fridays
 - Virtual CIC
 - Virtual Scholarship Presentations
 - Virtual Company Tours
- 2021 – Back to In-Person College Industry Conference (CIC)
- 2022 – 75th Anniversary Celebration Commences

Message from the Executive Director and FEF Board President



Brian Lewis, Executive Director

To strengthen the metalcasting industry is not just an expression, it has been the mission of the Foundry Educational Foundation for 75 years. Maybe strengthening is more of a mantra, but by supporting unique partnerships among students, educators and the industry, FEF's mission continues to be successful, helping today's students become tomorrow's leaders.

As we **Engage the Future**, even more emphasis must be placed on executing this critical mission. The demand has never been higher for engineers and technologists who are enthusiastic and knowledgeable about metalcasting. With industry reshoring, adopting automation and new technology ... coupled with the effects of retirements ... many, many metalcasting companies are building their "bench strength." With the support of our many partners, FEF remains committed to making sure college and university metalcasting programs are strong and vibrant, developing the necessary talent pool that the industry needs.



Tom Dempsey, President, FEF Board of Directors

At the end of WWII, a group of visionary individuals from metalcasting organizations had the idea of forming FEF. With over 6,000 foundries in the US at the time, there was a need to ensure metallurgists were developed at the college level. Starting with five schools, today FEF has 34 member institutions and continues its mission to strengthen and develop the metalcasting industry.

It is remarkable that an organization started by the foundry industry to recruit and train talent into the world of metalcasting is continuing the same mission 75 years later. Many of the leaders and acclaimed members in the metalcasting industry today are FEF alumni – including myself. As a proud graduate of Kent State University, I am thankful for the help of FEF to get to where I am today after over 25 years in the industry.

However, FEF could not continue to be a strong, vibrant organization without the help of corporate and individual partners who sustain our programs and support our students through scholarships. Donations to FEF are an investment in the future of the metalcasting industry and support the continuing progress that the FEF founders envisioned all those years ago.

We thank all our partners who believe in our mission, and we look forward to the next 75 years of strengthening the metalcasting industry.

FEF Mission: *FEF strengthens the metal casting industry by supporting unique partnerships among students, educators and industry, helping today's students become tomorrow's leaders*

College Industry Conference 2021 – Back Together Again

November 18-19, 2021, marked the return of the in-person College Industry Conference (CIC) in Chicago. 117 students and their respective professors, representing 25 FEF schools and over 200 metalcasting industry personnel representing 60 companies, came together for two days of focused networking. By all accounts, everyone was glad to be able to see and talk with each other face-to-face!



The students who attend the CIC each year are soon-to-be graduates looking for full-time positions, and sophomores and juniors looking for internships or co-ops. Asked what aspect of the event made the greatest impression, one student responded, "The hospitality, welcoming, and friendliness of all companies involved. It wasn't the typical job fair that I avoid in college. It was a fantastic experience that I will never forget."



All the businesses that send representatives to the CIC are looking for capable individuals to fill open positions in their companies. One industry participant explained, "These are the ideal candidates we're looking for. They are all well-aware of the foundry industry."

In addition to students having an opportunity to meet with multiple potential employers during the conference, FEF scholarships are presented to students. There were 30 CIC scholarships totaling \$72,500 awarded at the 2021 CIC. All of these scholarships are possible due to the generosity of individuals and companies who have established endowments specifically for FEF students.



Jerry Clancey, left; Tom Dempsey right

The 2021 recipient of FEF's highest individual award, the E.J. Walsh Award, was Jerry Clancey. Jerry is an FEF alumnus from Kent State University and served as FEF's 2009 Board President. The FEF/AFS Distinguished Professor Award was presented to University of Alabama Key Professor, Charlie Monroe. Charlie is an FEF alum also, having attended Penn State.



Charlie Monroe, left; Mike Lanahan, right

The speakers at the 2021 conference were Michelle Ring and Greg Miskinis, both well-known in the industry, who described their journeys from student to professional. Michelle is a graduate of the University of Illinois with an MBA and the Technical Sales Manager for American Colloid with over 17 years in the industry. Greg is a University of Wisconsin graduate with a Master's degree, now retired after nearly 40 years in the industry, most recently as Director of R&D for Waupaca Foundry, Inc. The speakers related their metalcasting careers, focusing on the skills and experiences they've obtained that they feel will make today's students and company leaders better prepared to manage the people-side of Industry 4.0.



The **2022 College Industry Conference** will be held on November 17-18 at the Westin Michigan Avenue in Chicago. Plan now to attend. It will be the best place to find your next excited, experienced, engaged employee.

Celebrate Our History

When FEF was established in 1947 to ensure a continuing supply of technical talent for the metalcasting industry, a campaign was organized to provide financial support for three years - 1947 through 1949. Companies were asked to make pledges for this three-year period. Prior to the conclusion of the first three-year cycle, FEF began to demonstrate encouraging results and the Board Members inaugurated a second three-year cycle, 1950 through 1952, which was also financed on a pledge basis.

From the date of its incorporation on itself through the support of its many and foundations. The founding Foundrymen's Society (precursor to Iron Founders Society (precursor to Malleable Founders Society, Non-Founders' Society, and Foundry (precursor to Casting Industry



February 28, 1947, FEF has sustained partner companies, individuals, groups of FEF were - American American Foundry Society), Gray Iron Casting Research Institute), Ferrous Founders' Society, Steel Equipment Manufacturers Assn. Suppliers Assn.)

FEF Key Professor Focus

Purdue University is closing in on the final stages of completing the Smart Foundry project. FEF Key Professor, **Milan Rakita**, has been working closely with industry leaders, FEF advisory board members, University administrators, and FEF to develop this project. Budgeted at over \$2,000,000, the project aims to elevate the metalcasting program towards a “Smart Manufacturing” focus. The Smart Foundry “classroom” will be a standalone metals processing laboratory fully integrated with a Smart Factory and will take full advantage of Industry 4.0 technologies. The molding machine, furnace, sand system, and pouring robot all will be network-accessible for tracking and analysis.



FEF has been heavily involved in supporting the engineering design for this project, helping coordinate the efforts of Sinto America (Roberts Sinto Corp.) and Purdue faculty, along with some focused fundraising.

The **University of Northern Iowa (UNI)** has started the renovation of the Industrial Technology Center, which houses the foundry. Renamed Applied Engineering Building, the focus will be on Industry 4.0 with new laboratories, updated computer simulation and automation, and a focus on real-world applications. Plans for the foundry include updating both their sand system and metallurgical lab and adding new technologies to the space.

Scott Giese, FEF Key Professor at UNI, was one of this year’s honorees of the 2022 AFS Service Citation, which is awarded to individuals who show outstanding general service to AFS, its chapters, and the metalcasting industry. Scott was selected “for his sterling record of service and industry reach consortia, student development, AFS technical committees and chapters, and advancement of technologies in the metalcasting industry.” Congratulations, Scott!

The University of Alabama – Birmingham and Pittsburg State University

FEF commissioned AFS student chapter teams to cast entries for an FEF 75th Anniversary Time Capsule project. The project is part of FEF’s year-long, 75th Anniversary Celebration. FEF acknowledges the winning schools: Pittsburg State student chapter, **Russ Rosmait**, advisor; and the University of Alabama – Birmingham student chapter, **Haibin Ning**,



advisor. We thank the students of those chapters too, for their hard work, efforts and great skills displayed during this project. The time capsules were showcased at CastExpo in April 2022 and will be on display at the 2022 CIC, to be filled with “metalcasting memories” like photos, small items, letters, and cards.



Michigan Technological University – FEF Key Professor, **Paul Sanders**, used an FEF Overture Grant to coordinate the design of a Recruiting Hallway for the Materials Science and Engineering (MSE) department. This hallway is part of the tour led by admissions personnel during visits for undergraduate students and their parents – highlighting the MSE department. Each of the hallway pillars features wall coverings showing a step in the casting process. Each presentation is titled to engage the understanding of a non-engineering observer, and the text provides detail to describe the individual casting steps. This creative recruiting tool is a best practice to promote FEF metalcasting programs while making sure the tours show visitors and incoming students the strength of the industry.

Georgia Southern University - FEF was excited to advance Georgia Southern University to full certification status in August 2021. The FEF team completed the certification visit virtually. This outstanding program has attributes that we look for at FEF-certified schools, such as a strong advisory board, a great number of students involved with the local AFS professional chapter, and a curriculum that includes many outreach activities, like open foundry nights. This program's success and strong future are credited to FEF Key Professor, **Mingzhi Xu**.

Student Spotlight

2022 SFSA Student Casting Competition

This year's Steel Founders' Society of America 2022 Cast in Steel student casting competition included more than 21 teams representing FEF certified and affiliated schools. In the Celtic Leaf Sword competition, entries by FEF schools University of Wisconsin Platteville and Georgia Southern University placed first and second, respectively.

Cast Expo 2022

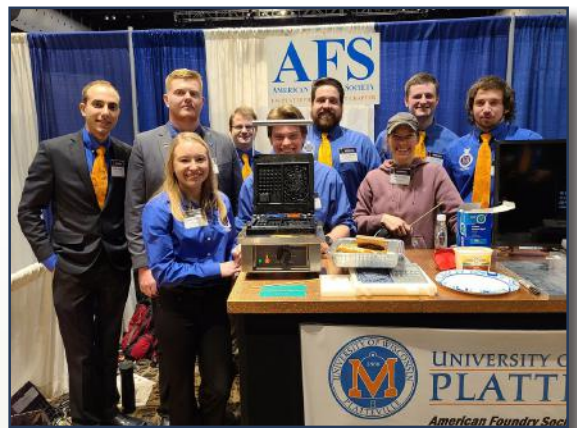
157 students representing 21 FEF schools attended this year's show. Students met with industry leaders, networked with other FEF students, and attended events held by AFS and FEF during the four-day expo. FEF provided funding for many of these students to travel to the show; AFS generously provides complementary registration for both students and professors.

Additionally, three students from **UW-Milwaukee** were recognized with the best paper awards in the Molding Methods & Materials division and Steel division.

AFS Wisconsin Regional - 2022

FEF students and professors showed up in force during this year's Regional. Several FEF students volunteered to demonstrate the Foundry-in-a-Box for the attendees. These demonstrations include melting and casting tin in various shapes in order to present and explain the casting process to individuals and to attract students to the study of metalcasting. Foundry-in-a-Box demonstrations are presented by many FEF schools to many different community and school groups.

Congratulations are in order to the UW-Platteville students for their winning submission in the casting contest at the regional.



UW-Milwaukee – Every fall semester the College of Engineering and Applied Sciences organizes an event to introduce incoming, first-year students to the various clubs in engineering and applied sciences. The AFS Student Chapter participated in this event and students were able to make castings (using the Foundry-in-a-Box.) Chapter officers provided information on the work-study scholarship (FEF Overture Grant) and interested students were asked to contact **Pradeep Rohatgi**, FEF Key Professor, for more information regarding the UW-Milwaukee metalcasting program.

The above are just a few examples of the many activities students participate in throughout the industry. FEF is proud of all our students who took part in special competitions and activities during this past year, and we look forward to future events and competitions.

Investing In Our Mission

Thanks to the generosity of corporate and individual donors, along with family foundations, FEF giving returned to pre-pandemic levels during FY 2021/2022. Several campaigns, challenges and initiatives took place during the period, leading to the increase. These funds helped us bring more than 150 students to CastExpo in Columbus in April 2022, increased the metalcasting knowledge and experiences of our students, and provided needed scholarship support for young talent. FEF continues to expand fundraising efforts by increasing our focus on developing grant opportunities as well as larger campaigns to help with foundry-lab updates and modernizations at FEF schools. As we reimagine our fundraising, we thank our current donors for their amazing support, and we look to boost donations for scholarships and programs by adding new donor companies and increasing our alumni giving.

75th Anniversary Board Challenge

FEF Board of Directors and Past Presidents were challenged to kick-off our 75th anniversary fundraising. This challenge not only included their annual gift, but a special gift to support our new strategic initiatives. The board and Past Presidents enthusiastically made a gift, and we achieved our goal with 100% giving. Thanks for leading the charge!



Strategic Special Projects

As part of our mission advancement, FEF is focusing on four strategic initiatives to advance our work and ensure our mission for the next 75 years. Each project will have a special campaign and fundraising program to solicit support for the initiative.

Two projects are aimed at specific “front-end” recruiting and retention efforts. These projects are the High School Lead Educator Project and Overture Grants. Both initiatives focus on expanding FEF’s outreach to high school students to increase recruitment for our university programs. Another project is aimed at schools and student resources, which includes the development of the new FEF Cast Crawler Job Board, establishment of “best practices” for internships, and development of program mission statements. Expanding our engagement with our FEF program alumni is the fourth initiative.

Giving Tuesday/Alumni Challenge

For the past four years, FEF has participated in the national day of giving known as “Giving Tuesday” which is the Tuesday following Thanksgiving. Our emphasis is to increase FEF participation by alumni with a school challenge that results in a trophy. In 2021, we had an 11% increase in alumni donors and a 27% increase in giving (over 2020 participation.) For the third year in a row, the University of Northern Iowa had the highest percent of alumni giving to support their alma mater. Other challenges for alumni this year included our expanded Fitness Challenge and the Cast in Steel Thor’s Hammer Auction.



Endowment Campaigns

In 2021/22, FEF added six new endowment funds in support of scholarships, university programs and special projects:

- William Powell Scholarship Fund – started by FEF Past President and UW-Madison alumnus William Powell and his wife Jan, supporting scholarships at UW-Platteville and UW-Madison;
- Dr. Diran Apelian Educational Experience Fund – a scholarship and experience fund to expand knowledge and interest of FEF students in advanced research, in coordination with the ACRC consortium;
- Jean Bye-AFS Women in Metalcasting Scholarship Fund – supports women students at FEF programs who have the enthusiasm, drive and passion for metalcasting. The first scholarship was awarded to Maria Alverio, an FEF student in FEF Key Professor **Scott Giese's** metalcasting program at the University of Northern Iowa. The selection committee chose Maria based on her leadership, integrity, and metalcasting volunteer activities;
- Dale E. Trumbull Memorial Scholarship Fund – supporting scholarships in Michigan;
- Sinto-AFS Future Leaders of Metalcasting Educational Fund – supporting the leadership program with focused scholarships; and,
- AFS New England Chapter Scholarship Fund – supporting scholarships for students in the New England region.



School Support Funds

Ensuring that schools continue to have funds to support their labs and programs in a variety of ways, FEF has created endowed school support funds. These funds allow the Key Professor to purchase new equipment, repair and update equipment, create opportunities for additional educational experiences for their students, and provide gap funding as needed for their programs. Currently, FEF is working with Pittsburg State University, Univ. of Michigan, Trine University, and Michigan Tech to establish and/or expand their funds. Our vision is to have a support fund for every school in our network.



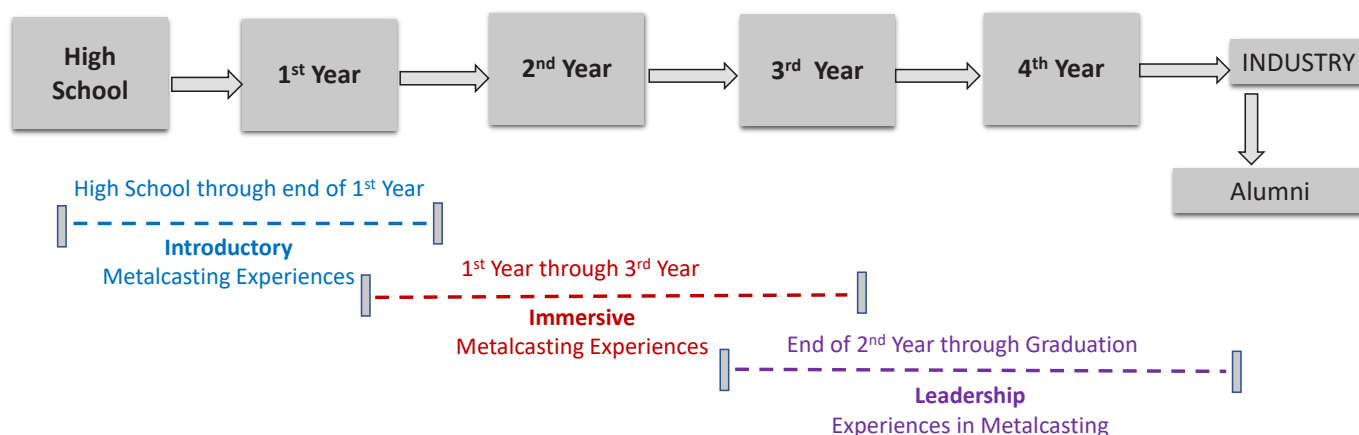
AFS Chapter Support Giving

FEF works closely with many AFS Chapters to raise funds for the FEF university program and students in their region. Many chapters have their own endowment fund built from their golf and other events to award annual scholarships in the chapter's name. Students look forward to these "scholarship nights", as do many chapter members. We encourage all chapters to consider raising funds to support young talent who will be "rising stars" in the metalcasting industry. Currently, FEF holds over \$2 million in endowments from chapters and industry associations.

FEF Strategic Priorities – Engaging the Future

FEF continues to prioritize the importance of “advancing” students across the continuum of educational experiences, from high school through post-secondary, and on to metalcasting industry careers. With several strategic projects aimed at the “front end” of the continuum, these efforts are designed to increase the enrollment of high school students entering FEF programs, and to retain first- and second-year students in metalcasting programs. We must ensure that the professional talent pipeline remains full and that graduates are primed for metalcasting careers.

Continuum of Constant Student Engagement and Positive Development Experiences



Overture Grants

The Overture Grant was created to support a strategic goal to increase and support student enrollment and retention in metalcasting programs. Six grants have been awarded since the 2020-2021 school year.

Recipients through April 2022

Michigan Tech University / University of Northern Iowa / Western Michigan

Tec Saltillo / University of Wisconsin, Milwaukee / Ohio State

Two Best Practice documents have been developed as outcome data was acquired from these grants – Student Communications and Student Outreach.

FEF BEST PRACTICES

Student Communications

Key Takeaways

- Use simple, student-centered language
- State clear actions (including links)
- Use departmental branding
- Include contact information
- Timing matters

Student Outreach - Who to Target and Why

Key Takeaways

- Differentiate communications for early and late applicants
- Advertise prospective student events (open house, campus tours, etc.)
- Highlight uniqueness of your program and university
- Cultivate early relationship between department and prospective students

Additional data is being collected and mini case studies are being created for the following:

- Student employment in labs
- First year seminar
- Pre/post surveys

Lead Educator

FEF's strategic program will provide interested high school technology and education teachers with resources to educate their students on advanced manufacturing through "hands-on minds-on" metalcasting activities and coursework. Utilizing the unique FEF model will connect these **manufacturing-cognizant** high school "lead educators" to FEF programs and industry professionals.

We have pilot programs being defined in Iowa, Wisconsin, and Kansas. Current efforts include:

- Developing a HS teacher resource page on the FEF website; the focus will be to provide a "helping hand" as teachers become comfortable teaching metalcasting, offering:
 - links to ASM Materials Education Foundation - Teacher Camps;
 - general metalcasting curriculum and information;
 - information on seminars at FEF schools for high school students or teachers; and,
 - videos and other literature and material related to teaching metalcasting.
- Development of a Mini-Foundry concept equipment list for use in high schools.
- Increased Key Professor/Industry/Student Chapter outreach.
- Potential mini-grants for High Schools to purchase equipment/materials (\$250-\$500.)



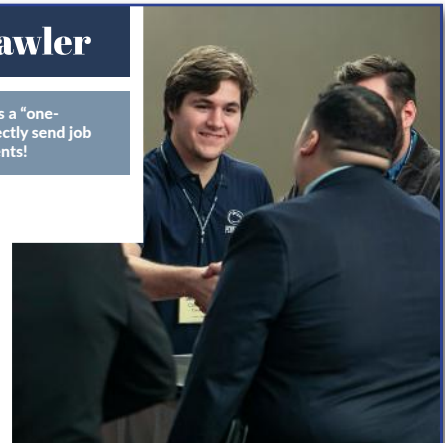
Introducing the FEF CastCrawler

FEF CastCrawler

The FEF CastCrawler provides a "one-stop" program to link and directly send job opportunities to all FEF students!

This is free to FEF partners!

For more information
please click on the link:
[www.fefinc.org/
fef-castcrawler.html](http://www.fefinc.org/fef-castcrawler.html)



Internships Survey Data (2020/21)

Student Feedback

- 50% assigned a mentor (in addition to their direct supervisor)
- 100%** felt they had adequate **skills/capabilities for the job**
- 75% made presentations
- 90% attended multiple company conferences/meetings



Company Feedback

- 100%** found the student's **skills/capabilities helpful for the job**
- 90% students assigned a special project
- 80% mentioned student "time on the floor" was positive

ENGAGE THE FUTURE

The vision for the future lies in the investment we make in our students.

Colleges +
Universities



Students
interested in
foundry



Foundries,
suppliers, OEM's

Univ. of Alabama | Univ. of Alabama – Birmingham | California Polytechnic-Pomona | Georgia Southern | Instituto Tecnológico de Saltillo | Kent State University | Michigan Tech
Missouri Univ. of Science & Tech | Mohawk College | University of Northern Iowa | Ohio State | Penn State University | Pittsburg State University | Purdue University | Tennessee Technological Univ.
Texas State | Trine University | Virginia Tech | Western Michigan University | University of Wisconsin-Milwaukee | University of Wisconsin-Platteville | Arizona State University
California Poly-San Luis Obispo | California State-Chico | California – Irvine | Central Washington University | Eastern Michigan University | University of Michigan | Milwaukee School of Engineering
Penn State Behrend | Ryerson University | Saginaw Valley State University | University of Wisconsin-Madison | University of Wisconsin-Stout | Youngstown State University

\$1.2M+ spent annually on **scholarships and program expenses** including

\$10k the average amount FEF spends **per graduating student** entering industry each year



Key Professor Support

funds to maintain or upgrade foundry labs + advancing educational needs for students

Priceless access to resources, student organizations, industry networking events + more

40 professional chapters engaged with students

FEF Virtual Summer Series: Industry educates students

CIC by the numbers

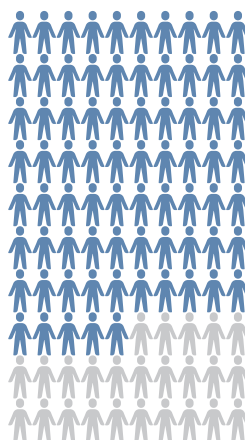
Who attends this premier, annual networking event for students + industry?

- 300+ attendees
- 120+ ready-for-hire students
- 50+ companies represented
- 25+ Key educators and administrators

60% of industry partners hire interns or co-ops from FEF supported programs

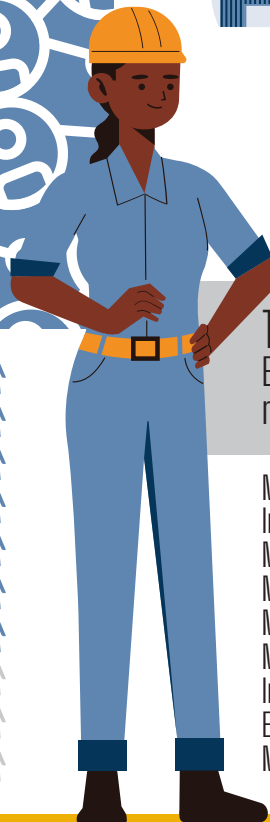
\$0.80 per dollar donated goes directly to scholarships and programs

75% of scholarship recipients enter the industry



250+ students receive scholarships annually

110+ graduating seniors hire into full-time positions annually



The Result
Engineers + technologists ready for industry

- Manufacturing Technology Management
- Industrial Technology
- Mechanical Engineering
- Manufacturing Engineering Technology
- Metallurgical Engineering
- Materials Science Engineering
- Industrial Engineering
- Engineering Management
- Manufacturing Engineering

fefinc.org



FEF Value Proposition

For 75 years FEF has provided great value to the metalcasting industry. FEF was formed **by industry** for benefit **to industry**. Our value proposition to the metalcasting industry is defined here:

The Foundry Educational Foundation (FEF) is the unique organization that connects foundries, foundry suppliers, and OEMs with engineers and technologists, to provide a steady supply of degreed professional talent, keeping the metalcasting industry strong and prosperous.

As a non-profit business, supported by industry - for industry, we deliver:

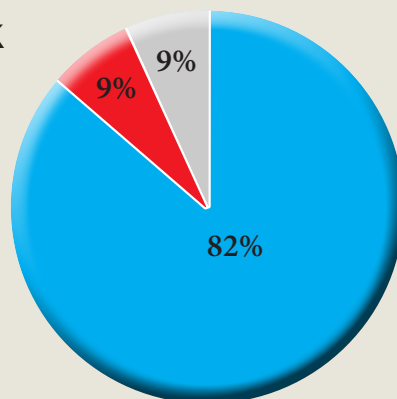
- Over \$1.2 million annually in program and scholarship support towards:
 - attracting and retaining students interested in a career in the industry, and
 - supporting Key Professors to help preserve and expand their metalcasting programs, while training and developing new talent for the industry
- A robust return-on-investment for the industry:
 - 75% of all scholarship recipients enter the metalcasting industry (5-year average)
 - 80 cents of every dollar donated to FEF goes directly to scholarships and programs
 - FEF invests an average of \$10,000 per graduating student entering the industry each year
 - through direct contact with a Key Professor, over 60% of surveyed industry-partner companies hire interns or co-op students from FEF supported programs
- A distinct awareness and knowledge of the metalcasting industry to students through a strong brand equity that:
 - Supports a network of over 34 member institutions that encompass programs spanning the broad range of higher education, from production supervision to specialized research;
 - Connects industry professional needs with talented and high achieving students through support of multiple networking and engagement opportunities;
 - Each year, over 200 top students and graduates are hired for internships, co-ops, and full-time positions;
 - Provides vital contacts to individual graduating seniors through the College Industry Conference - the premier industry career fair annual event
 - Nearly 700 students along with over 900 industry professionals have attended the conference in the last five years.

A Value Proposition was also developed **for students** and can be found at <https://bit.ly/FEFValueProp>

Your Funds At Work

2021/22 Funds

- Program and Scholarships
- Fundraising
- Management and General



Total number of scholarships awarded during the 2021/22 school year: 231

Scholarships and Program Expenses (May 1 thru April 30):

2019/20: \$1,181,529
2020/21: \$1,051,731
2021/22: \$1,358,689

On The Road for the 75th Anniversary

FEF Staff, Board of Directors, Alumni, Students, Key Professors and Friends all have enjoyed getting back to in-person meetings, events and programs. Thanks to everyone who welcomed us and joined in with such enthusiasm.



CREATIVE EXPERIENCES FOR STUDENTS SUPPLIED BY FEF ALUMNI AND CORPORATE PARTNERS

During the 2021/22 year, FEF alumni and corporate partners supported our students by providing webinars and virtual company tours. The FEF Fitness Challenge, student scavenger hunt, hammer auction, and Giving Tuesday provided additional interaction opportunities and financial support. We THANK everyone who participated in these activities. Photos below capture some of these activities.

FEF FITNESS CHALLENGE

140 participants including 22 current students; 27 teams; over 16000 miles walked, jogged, biked



HAMMER AUCTION

25

HAMMERS

18

SCHOOLS REPRESENTED

35

BIDDERS

\$100-\$500
WINNING BID AMOUNTS

OVER
\$5,000
RAISED

Funds benefit FEF school scholarship allocations



CASTEXPO RECEPTION

125+ current students, alumni, donors; networking

Thanks to those who partnered with us for fitness challenge, student scavenger hunt, and CastExpo reception!



STUDENT SCAVENGER HUNT

25 teams; 97 challenges; from meeting exhibitors to posing with the terminator, finding castings inside the facility to finding castings in the hotels



7 VIRTUAL TOURS

Led by FEF alumni from Virginia Tech, Western Michigan, Trine, MS&T

On Demand Melting



NINE STUDENT WEBINARS

Subjects from casting in space to working in a small foundry, from 3D printing to various career paths

GIVING TUESDAY

100%

146
DONORS

\$50,256

raised of \$50,000 target

funds benefit FEF school scholarship allocations

Individual Contributors

Batuhan Ak*
 Carlos Alvarez
 Jon Anderson*
 John Andrews
 Meztli Anguiano*
 Anonymous (3)
 Diran Apelian
 Teni Apelian*
 Rolando Arevalo*
 Ronald Aufderheide
 Nicholas Bacik
 Logan Bader*
 Andrew Bain
 James Barlow*
 Dwight & Carolyn Barnhard
 Angie Barraclough*
 Bill Barrett
 Brian Began
 Jacob & Micca Belke
 George Benjaminson
 Paul Berg
 Luis Bernardino*
 Jeffrey Beuthien
 Scott & Nancy Biederman
 John Biel*
 Brodie Biersner
 Bob Birmingham
 Tom Bishop
 Bruce & Ann Blatzer
 Travis Bodick
 Jack Bodine
 Kris Boss
 Noah Brack*
 Jim Brantley
 Ryan Brattrud
 Patricia Breig
 Wolfgang Breitenbach*
 Catherine Brooke*
 Curtis Brookhart
 Les Brown
 Nathaniel Bryant
 Larry Buergel*
 Rodney Burkhardt
 Marcel & Sandy Calabrese
 Aaron Campbell
 Jane Catey*
 Steve Checkoway
 David Cikra
 Jerry & Connie Clancey
 Tony Clark
 Paul Clements
 Tom Cobett
 Bill & Mary Conway
 Donato Corona*
 Joe Costabile
 Angela Cox*
 Don Craig
 Milford Cunningham
 John Dakan*
 Garret Davis
 Evelyn Balderas De La Rosa*
 Monica De Loera*
 Robert DeAngelis
 Mariel DeMoss*
 Tom Dempsey
 Dale Dewald
 Bill & Eileen DeWood
 Caitlyn Dickson*
 Henry Dienst
 Kevin Dodson
 John Dood*
 John Dood*
 Thomas Dore
 Dennis Dotson
 Alan Druschitz
 Phil & Pat Duke
 Thomas Dunham
 Shelly Dutler
 Samuel Edwards
 Jonathan Erman*
 Craig Ertl
 Joe & Helen Ertl
 Michael Falco*
 Chris Fetters
 Michael Fisch*
 H. Wayne Fitt
 Merton Flemings*
 Elizabeth Fontana*
 George Forish
 Michael Formanek
 Chuck Fowler
 Jeff Fowler
 Jim Frost
 Travis Frush
 Taite Gallagher
 Joshua Gammariello*
 William Gammill
 Robert Garver
 David Gelwicks
 Dale Gerard
 Maureen Gerard
 Nick Gerrits
 Scott Giese
 Gary & Jeanne Gigante
 Matthew Glodowski
 Tadeo Gonzalez*
 Eric Gordon*
 John Grabel
 John Grahek
 Judith Gregory
 Pete Guidi
 Genevieve Gural
 Jason Gutierrez
 Edgar Guzman
 John Haas
 Helga Hamm*
 Michael Hamner
 Dika Handayani
 Perry Harvey
 Christie Hasbrouck
 Alicia Hawrylko*
 Christy Hawrylko*
 Kathy Hayrynen
 Carolina Herrera
 Dale Herzog*
 Chris Hetzler
 Barry Heuer
 Johnny Hill
 Gene Holloway
 Dorothy Hoopingartner*
 Mary Jane Hornung
 Danielle Horstman
 Lee Horvath
 Coleman Housman
 Zed Howell
 Todd & Niki Hritz
 Paul Huffman
 Ben Hunsicker
 Michael Huskey*
 Steve Imm
 Matt Jacobs
 Rick & Vicki James
 David Jaramillo
 Lewis Jessup
 Jacob Johnson*
 Peggy Jones
 Sarah Jordan*
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