HAVE 20/20 VISION

Help us perfect a clear direction for YOU and forging's future.

Our Plan.
More scholarships
More tours
More research projects at universities

Results - Your Company gets...
...people “relevant” and set for the industry
...skilled students/graduates coming into the industry
...your company lined up for 2020 planning
...you at the forefront of developing technologies
...better access to improved practices

Scholarships put great people into YOUR business!
See the future. Be part of the future. Shape the future.
The FIERF Mission: 
*Support the Forging Industry Through Technology Development and Education*

**Research and Development**
- Provide medium for forging and related industry collaborative research.
- Fund technology development.
- Transfer technology to forging industry and users.

**Technical Education**
- Foster forging curriculum and experiential training in university engineering departments.
- Provide scholarships to encourage careers in the forging and related industries.
- Promote industry awareness: career opportunities to students of all ages.

**Fundraising**
- Seek support from government, industry and individual sources to grow programs to fulfill research and education goals.

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**TECHNOLOGY**
*(The Science That Pushes Us Forward)*

**Technology**
FIERF is engaged with research partners around the world to bring the best in class technology.

Universities to expand the science of the forging process including metallurgy, heating, quality, tooling performance and more. Over 100 papers + thesis are available on our website.

Industry, academia and researchers are brought together at the Technical Conference, to report out research and technologies impacting the industry now and in the future.

“I have worked on several FIERF funded research projects over the years. These projects have financially supported both undergraduate and graduate students and provided them with invaluable work experience, technical publications, and great exposure to the technical aspects of this industry.”

Professor Frank Kraft
Ohio University
Believing that technological innovations are key to the competitiveness of the North American forging industry, the Foundation fosters collaborative research, delivers technology and funds larger projects that leverage industry money and resources with government labs and funding agencies whenever possible.

**EDUCATION**

(Future Workforce Development)

FIERF builds ties with faculty members and makes direct contacts with students by providing financial and curricular support to encourage and promote studies and research in forging technologies.

**FIERF Magnet Schools**
- California Polytechnic State University
- Case Western Reserve University
- Colorado School of Mines
- Georgia Institute of Technology
- Illinois Institute of Technology
- Iowa State University
- Marquette University
- Michigan Technological University
- Missouri University of Science & Technology
- North Carolina State University
- Ohio State University
- Ohio University
- Pennsylvania State University
- Rensselaer Polytechnic Institute
- University of Michigan
- University of North Texas
- University of Pittsburgh
- University of Waterloo
- Worcester Polytechnic Institute
- Wright State University

**Education Initiatives**

FIERF’s education services focus on university-based engineering programs to provide students with forging-related learning experiences and to encourage careers in forging and related industries. These activities promote an understanding of forging processes.

**FIERF Magnet Schools** – FIERF builds ties with faculty members and makes direct contacts with students by providing financial and curricular support to encourage and promote studies and research in forging technologies.

- **FIERF Named Professor at Colorado School of Mines** – The FIERF Professor promotes forging education throughout the academic community and leads FIA Die and Press Fundamentals training courses.
- **Internship Program** – The Foundation acts as a clearing house for organizations seeking to hire an interested Finkl Scholarship or Magnet School student as a summer intern.
- **Research Grants** – The Foundation provides funding to engage students in forging-related research. These projects are reported out at the Industry Technical Conference and poster sessions at Forge Fair.
- **Forging Industry Women’s Scholarships** – Begun in 2015 with an endowment made by Sharon Haverstock, the Forging Industry Women’s Scholarship is awarded to three women pursuing degrees in engineering and business disciplines to reward the best and brightest who have the desire and potential to reach executive or senior leadership levels.

“Why is FIERF important? It represents the crucial connection between academia and industry that enables successful training to happen. Consider that engineering student training is analogous to an impression die forging process. Students represent the billet where it can be considered that academia provides the heating and preforming/busting operations such students begin to develop enthusiasm (heating) and basic skills (i.e. preforming through coursework and labs) that are needed to move metal. Industry represents the finish die where students complete and refine their skills in real world forge engineering and trims off student attributes. FIERF in essence acts as the blocker die by providing opportunities where the preform transitions to a rough forging. One of the best examples of how this occurs is through the FIERF sponsored projects. In much the same way that the blocker dieroughs out a shape, these projects permit students to transition their training and skills from the classroom to the real world.”

Joe Domblesky
Marquette University

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**ASM Materials Camps for Teachers Sponsorship**

The Foundation is taking the ‘forging story’ to high school and university students – talking about the process and careers in the industry;

Providing teachers with materials for classrooms to introduce students to forging/metals/materials science.

Students are being engaged in research projects that bring them into contact with forging and supplier companies as partners and mentors.

Interns are working side by side with veterans learning new skills.

Finkl and Forging Industry Women’s Scholarship students are exploring careers in the industry.

Connecting employers with local colleges, trade and high schools to find the next generation of employees.
PAYING IT FORWARD –
(ASM Pacesetter Award)

The Forging Industry Educational and Research Foundation has been recognized by the ASM Foundation with the 2015 Pacesetter Award in recognition of the Foundation’s support of Materials Camps for Teachers. Established in 2009, the Pacesetter Award honors organizations for continued service to the ASM Materials Education Foundation and recognizes their impact in supporting educational outreach efforts that encourage young people to pursue careers in materials science and engineering.

Image: Rob Mayer accepting the 2015 ASM Pacesetter Award on behalf of FIERF and FIA Volunteers from Dr. David Spenser of ASM Foundation for supporting educational outreach efforts to encourage young people to pursue careers in materials science and engineering.

Success Stories

"Since 2000 the Forging and Forming class at CSM has been sponsored by Finkl and FIERF to visit the Finkl forging facilities each spring. The student evaluations for the course have risen dramatically since those visits began. The opportunity to see forging processes in action has been invaluable to students learning and understanding of the forging process. Without the generous support of FIERF the quality of the educational experience would be much less. CSM, the MME department at CSM but more importantly the students in the class thank FIERF for providing this outstanding opportunity.”

Chester Van Tyne,
FIERF Professor
Colorado School of Mines

William Smythe –
"I would like to thank you for the generous scholarship courtesy of the Forging Industry Educational and Research Foundation. The Charles W. Finkl Scholarship is a true blessing of generosity that allows me to continue my education in materials science and engineering. Using my knowledge obtained through my schooling, I hope to one day have a career in the metals industry and help to improve upon the world. Thank you very much! This scholarship helps make it all possible!"

Rachel Perini –
"It is an honor to receive this award and it is because of scholarships like this that I can continue enjoying my education. If not for educational donations like yours, I would not have the opportunity or the resources to do so well in and out of the classroom.”

Matthew Pallone –
“I would like to take this time to thank you and I am very excited to receive this great award! Ever since I was a kid I knew that engineering was the correct path for me. My father is also in the forging industry and that is what pushed me to where I am today. Thank you again, and I am very excited to graduate and start my career as an engineer!”

Bernoli I. Baello, Ph.D.
Northridge Preparatory School

"Thank you for the help the Forging Foundation provided to hook me up with a forging company in my local area. This year is the first time I offered a separate Materials Science class at my school and through that we were able to have a tour of their facility. They gave us a talk about the history of the company and what they do and then, in two groups, toured the facility showing us the forging process with their hammers and the heat treatment area. Students had a chance to ask questions at the end. We left the place impressed and look forward to coming back again.”

Chester Van Tyne,
FIERF Professor
Colorado School of Mines
ANVIL SOCIETY MEMBERS
(The Difference Makers)

Platinum Anvil Society Members
Organizations, Foundations and individuals pledging support to the Foundation of $25,000 or more per year for three or more years.

Gold Anvil Society Members
Organizations, Foundations and individuals pledging support to the Foundation of $10,000 or more per year for three or more years.

Silver Anvil Society Members
Organizations, Foundations and individuals pledging support to the Foundation of $5,000 - $9,999 per year for three or more years.

Bronze Anvil Society Members
Organizations, Foundations and individuals pledging support to the Foundation of $2,500 - $4,999 per year for three or more years.

Sharon P. Haverstock

Ajax-CECO, a Park-Ohio Company
Alverin M. Cornell Foundation
American Axle & Manufacturing, Inc.
Canton Drop Forge
Cleveland Hardware & Forging Co.
Forged Products, Inc.
Keystone Forging Co.

Lasco Engineering Services LLC
Modern Drop Forge Company
The Queen City Forging Co.
Scientific Forming Technologies Corp.
W.T. Walker Group, Inc.
Weber Metal, Inc.

Alton Steel, Inc.
Cambell Press Repair
Consolidated Industries Inc.
Eaton Steel Bar Company
Fomas (USA)
IMT
Inductoheat, Inc.
McInnes Rolled Rings
Pat Mooney, Inc.
Tkach Consulting LLC
Universal Stainless
"ASM International Materials Teacher Camps reach about 800 high school and middle school teachers each year. Initially most of the teachers are totally unaware of the forging process, the improvement of metals by forging, and the numerous career opportunities in the industry.

As a camp teacher and metallurgist, I have been especially appreciative of the visits to the camps by forging industry representatives. They bring the forging story to life, each in a different way."

Tom Glasgow, FASM
Glenn Research Center, Ret

"FIERF’s support made the forging research at OSU possible and provided full or partial support to many of my graduate students who will undoubtedly work in forging companies or related fields to support the industry."

Taylan Altan, Professor (Emeritus) & Director Center for Precision Forming (CPF)
The Ohio State University

YOUR Contribution Can Change the Future!

Corporate Giving

What is the FIERF Anvil Society? The Anvil Society is a way to recognize very important partners of the Foundation. Organizations, Foundations and individuals who pledge support of $2,500 or more per year for a minimum of three years will be designated as Anvil Society members.

Platinum Members
Pledging $25,000 or more per year for 3 or more years.

Gold Members
Pledging $10,000 or more per year for 3 or more years.

Silver Members
Pledging $5,000 - $9,999 per year for 3 or more years.

Bronze Members
Pledging $2,500 - $4,999 per year for 3 or more years.

Individual Giving

Platinum, Gold, Silver and Bronze members will be recognized with:

- A Foundation Sponsorship Award suitable for lobby display.
- A listing on the FIERF website Honor Roll of Contributors.
- An electronic Anvil supporter logo for use on your website to designate your organization as a very important partner of FIERF.

Annual Giving
Annual contributions give direct financial support to students and industry research projects.

In Memory / In Honor
Is there a special mentor or leader in whose name you’d like to make a contribution or celebrate a milestone retirement?

Planned Gifts
There are many tax-saving opportunities for charitable giving as part of your estate planning. Whether a bequest, a life insurance policy or IRA naming FIERF as beneficiary or gift or an endowment.

Designate Your Gift

Education Initiatives
Provides funding for undergraduate research grants, graduate fellowships and magnet school program.

Forging Industry Women’s Scholarship Fund
Up to three awards of $5,000 each year.

Finkl Scholarship Fund
Up to fifteen university junior and senior engineering students are awarded $2,000 per year.

Industry Technical Initiatives
These funds are used for larger projects such as furnace, die material or lubrication studies.

Wherever Most Needed
FIERF unrestricted gifts fund education, scholarship or technical projects where needed.
Pledge Form

Thank You for Your Support!

100% of contributions go directly to fund projects and activities. The generous support of Forging Industry Association (FIA) covers the Foundation’s administrative costs, so donations can go straight to research and education initiatives, instead of overhead.

Personal Information

Name __________________________
Company _________________________
Address __________________________

Phone ____________________________
Email _____________________________

This contribution is: □ Corporate □ Individual

Step 1

Our pledge is: □ $25,000 □ $10,000 □ $5,000 □ $2,500 □ $1,000 □ $500 □ $100 □ $ ______

for:

□ 1 year □ 2 years □ 3 years □ 4 years □ 5 years □ Other _____ years

Step 2

Please select how you wish your contribution to be used (you may indicate percentages if you wish):

□ Use my gift where most needed ______%
□ Education Initiatives ______%
□ Finkl Scholarship Fund ______%
□ Forging Industry Women’s Scholarship ______%
□ Technical Initiatives ______%

Step 3

□ Please check if you do not wish your contribution to be publicly disclosed.

□ Check enclosed (make check payable to Forging Industry Educational and Research Foundation).

□ I am interested in the automatic bank withdrawal option. Please call me to discuss.

□ Please invoice me.

□ Please call me to discuss an “in memory/honor, planned or named” gift.