Mission
To excite young people in materials, science, and engineering careers
Dear friends:
The ASM Materials Education Foundation knows that donors have a choice when it comes to charitable giving and we are extremely grateful that you have chosen to place your financial support behind our mission. Therefore, we are dedicating this year’s theme to YOU, the donors! We are working in harmony with you to “Inspire the future together.”

Building on last year’s accomplishments, the Foundation is making changes aimed at creating new initiatives to continue fulfilling our mission, increase operational efficiency, and expand our organizational capacity.

These growth initiatives are intended to:

- Expand our menu of programs to more effectively excite young people to pursue careers in STEM fields.
- Deliver a greater degree of service to our donors and members.
- Increase visibility through use of the internet.

These dynamic achievements are being fueled by our talented, smart, and dedicated donors, partners, and Board of Trustees. YOU make it possible to provide quality programs for teachers and students and, like us, you believe in encouraging the next generation of materials scientists and engineers.

Thank you for your trust, generous support, and commitment, which enables today’s youth to flourish and inspire others. We couldn’t do it without you.

With gratitude,

Michael Campagna

---

ASM Materials Education Foundation 2015 Board of Trustees

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Dear Champions of the ASM Materials Education Foundation,

As my two-year term comes to a close as chairman of the ASM Materials Education Foundation, I wanted to thank you for the opportunity to serve the Foundation and the Society. These last two years have been an exciting time and one that I think has effected important changes in both our board and our mission. It was a great privilege to be part of it and to serve with such wonderful people on the board, executive team, staff, and at ASM International.

So what is new? Our board has diversified. We have younger members, more females, and colleagues with backgrounds beyond materials and who bring new perspectives to our mission of exciting young people about STEM careers. Even so, we have more work to do, particularly with regard to racial diversity.

Our programs have also become more diverse, consistent with our updated strategic plan. Our mission has grown from scholarships and camps to a much broader focus—all aimed at exciting young people about science, engineering, and materials. Your Foundation has incubated four new business units that will be important to increasing our impact on the ASM and STEM communities. One of these is an afterschool science program for middle school students that is run in cooperation with area museums— with a goal of exciting this age group about STEM and materials before they enter high school. For older students, our second business unit is a community college program designed to bring skilled technologists into the workforce. We have provided an initial round of scholarships to these deserving students. Another new initiative involves distance learning for teachers. Along with Temple University, we have invested in a website aimed at teaching science in an exciting and innovative way. This program expands our reach to schools everywhere, reaching beyond those served by our 40+ teacher camps. The curriculum covers not only coursework for pre-college common core standards, but also next-generation science standards. Finally, we are beginning to pursue how to excite younger students at an earlier age, namely fourth grade and younger when the desire for STEM education is more formative to their career choices.

We are excited by the potential of these new initiatives and realize that we may fail at some while succeeding at others. In any event, we are pursuing constructive change to enhance the scope of our goals and impact, so we can meet our mission more fully and at a lower cost.

We are sincerely grateful to all who have helped make this possible, particularly our ASM membership, ASM board, Foundation board, and executive leadership—and our wonderful donors that come from both inside and outside the materials community. It has been a pleasure working with you.

—Dr. David B. Spencer

My daughter cannot stop talking about the ASM Materials Camp! What an incredible experience! She learned an absolute ton, gained some neat exposure and knowledge about materials engineering, and really enjoyed bonding with fellow prospective engineers. A huge thank you for organizing and running such an amazing program.

— Lawrence Spinetta (Parent of Eisenman Camp Attendee)
**2015 CONTRIBUTIONS**

**Titanium $10,000+**
- ASM Materials Camp Canada
- Building Engineering & Science Talent
- Carpenter Technology Corp.
- Denny, Arline Mrs.
- Dykarcz, Mary Mrs.
- Ellwood Group
- Forging Foundation (FIERF)
- General Motors LLC
- Henry M. Rowan Family Foundation Inc.
- Ivy Tech Community College
- Ladish Co. Foundation
- Lightweight Innovations For Tomorrow
- Lockheed Martin Sandia Corporation
- NACE International
- National Center for Defense
- South Central Tennessee Workforce Alliance
- The School District of Greenville County
- Thermo-Calc
- University of Southern Mississippi
- U.S. Air Force

**Platinum $5,000 - $9,999**
- Agilent Technologies
- ASM Chicago Regional Chapter
- ASM Cincinnati Chapter
- ASM Columbus Chapter
- Carnegie Mellon University
- Ceramic & Glass Industry Foundation
- Copley, Stephen M. and Todd, Judith A.
- Decker, Raymond and Mary
- Element Materials Technology
- Glasgow, Thomas K.
- Jones, Peggy E.
- Keough Family Foundation
- Magneco/Metrel Inc
- New Jersey Institute of Technology
- Shashkov, Dimitry
- Shropshire, William W.
- Spencer, David B.
- St. Mary’s University
- The University of Akron
- University of Illinois

**Gold $1,000 - $4,999**
- AIST Foundation
- Alcoa Foundation
- American Ceramic Society
- American Foundry Society
- Andrews, John V.
- Apelian, Diran
- ASM Boston Chapter
- ASM Chicago Regional Chapter
- ASM Cleveland Chapter
- ASM Indianapolis Chapter
- ASM Muncie Chapter
- ASM Oak Ridge Chapter
- ASM Puget Sound Chapter
- ASM Rhode Island Chapter
- Asphahani, Aziz I.
- Berndt, Christopher C.
- Busch LLC
- Cargill Corporation
- Carnegie Mellon/Gelfand Foundation
- Caulkins, Jennie D.
- Central State University
- Chevron Corporation
- Connelly, Michael B. & Eileen
- Halverstadt, Robert D.
- Hi TecMetal Group
- Hogue, Frauke
- Kulkarni, Kishor M.
- Laughlin, David E.
- Maidonado, Julio G.
- Materion
- Medtronic
- Muzyka, Donald R.
- Nydam, Andrew G.
- Pursall, P.
- Questek Innovations LLC
- R.P. Simmons Family Foundation
- Schwartz, Lyle H. and Jurkovich, Celesta
- Society For The Advancement of Material & Processing Engineering
- Surbey, Lisa
- Torcolini, Robert J. and Silan, Lynn D.
- UES
- University of Utah
- Wright State University

**Silver $500 - $999**
- Anderson, Iver E.
- ASM Kansas City Chapter
- Ciszewski, Jill
- Dicus, Dennis L.
- Drosdak, II, John M.
- First Energy Foundation
- Glicksman, Martin E.
- Gouba, Sandra L.
- Havics, Andrew A.
- Hayrynyn, Kathy L.
- Joseph, Rowdy L.
- Kolene Corporation
- Kowalski Heat Treating Company
- Lambda Research
- Passek, Thomas
- ph2, LLC
- Purdue University
- Smith, Mark F.
- Sonon, Daniel E.
- The Benevity Community Impact Fund
- Williams, David B.

**Bronze $100 - $499**
- Adams, Francis E.
- Allison, John
- Anderson, Kevin R.
- Angelides, Peter G.
- Arthur, Robert P.
- Bagnall, Chris
- Becker, Veronica
- Berardinis, Larry
- Bierlein, John C.
- Blessing, Welton
- Bowen Pittman, Rachel
- Bridenbaugh, Peter R.
- Burt, Victoria
- Callister, William D.
- Campana, Nichol
- Campbell, John A.
- Carpenter, Joseph
- Central State University
- Clauer, Allan H.
- Clinton, Jr., Charles E.
- Clum, James A.
- Coatta, Stephen
- Conti, Patty
- Dean, Sheldon W.
- Deatherage, Perentina
- Dieter, George
- Dodeja, Ravi
- Dowling, Jr., William E.
- Earle, Jacquelin M.
- Elder, James
- Fleming, Mary Anne
- Foley, James
- Foulds, Jude R.
- Gaw, William D.
Bronze $100 - $499 (continued)

Geiger, Gordon H.
Gibala, Ronald
Goodwin, Debbie
Gschneidner, Karl A.
Hales, Crispin
Harper, Sheila I.
Harrysson, Ola
Henry, Scott
Hirth, John P.
Holloway, Paul H.
Hoover, Christine
Horner, Howard E.
Howard, Stanley M.
Jackson, Elle
Jerson, Mary Anne
Juhas, Mary
Kammerer, Henry G.
Knudson, Steven E.
Kurtz, Steven J.
Kushnick, Steven B.
Lai, George
Laughlin, David E.
Lichtman, Ira M.
Linker, Fred
Luetje, Robert E.
Lupulescu, Afina
Mehler, George
Michigan Metrology
Mikoda, Sr., James H.
Miller, Joanne
Nye, Donald E.
Pang, Menghi
Pense, Alan W.
Phelps, Henry R.
Prevey, Paul S.
Radzilowski, Ronald
Rapp, Robert A.
Richards, Frances
Rigdon, Michael A.
Romano, Ralph
Rosenfield, Alan R.
Schneider, Cecil
Schultz, Jay W.
Scot Forge Company
Shaffer, Jeffrey
Shirk, Ginny
Simon, Jack G.
Siren, Nils T.
Smith, Raymond L.
Subramanyam, Dilip K.
Sudarshan, T. S.
Taylor, Harold L.
Totta, Paul A.
Trester, Paul W.
Turner, Arthur P.
United Technologies Corp.
Vergason, Gary E.
Vermillion, Linda
S. Wade, Steven A.
Walker, James L.
Weslowski, Robert A.
Williamson, Gregory A.
Witt, Gary G.
Yolton, C. Fred
Zamrik, Sam Y.

Friends $99 & under

Al Dajane, Maher
Alasino, Sergio Luis
Allen, Chris
Andersen, James
Anderson, Conrad H.
Arbes, Carl
Arias, Delia E.
Backer, Dennis F.
Baik, Sue
Bain, Andrew
Barbour, George
Barnes, Anthony John
Bavarian, Bezak
Beiss, Paul
Belanger, Jonathan
Bendle, Jennifer
Benscoter, Arlan O.
Birch, Wally
Blais, Christopher B.
Bobee, Thomas G.
Boileau, James M.
Bossard, J. G.
Bowerman, Biays S.
Bradley, Don
Bradley, Michael P.
Brassard, Suzanne
Breen, Dale H.
Brincko, Andrew J.
Brock, Virginia R.
Cadien, Kenneth C.
Caldwell, Sargent
Cameron, David W.
Campbell, Ronald
Carr, Jr., Leonard E.
Carter, Jennifer L. W.
Cavalli, Matthew
Celli, Marco
Chandrasckaran, V. Chandru
Charit, Indrajit
Chau, Hung C.
Chester, Karly N.
Chojnacki, Mark
Christodoulou, Julie A.
Cisar, Kelly
Clark, Harold R.
Clark, Jessica
Clark, Marshal D.
Collins, Sunita R.
Colter, Thomas
Conybear, James G.
Coriel, Sam R.
Coyle, Thomas W.
Danilak, Stephen
Darragh, Craig V.
Dascoli, Michael
Davenport, Brian
Davies, Richard G.
Davis, Maria
DeFeo, Angelo J.
Dellabiancia, Calo
Dennig, Paul
Dever, Joyce A.
Dicken, Michael
Diehl, Kenneth L.
Diffenbach, P. J.
Dixon, Grondolyn
Donaldson, Ian
Donaldson, Jennifer
Dormer, George J.
Dougherty, James, R.
Dovicsak, Sr., Robert
Druschitz, Alan P.
Duda, Patricia
Dupont, Pierre
Durant, Rafael Alcantara
Dyke, Lorne C.
Edwards, Janice L.
Egger, Helmut
Elder, Jr., Harry M. I.
Elder, Kayla
Elliott, Daniel S.
Elsey, James
2015 ASM FOUNDATION PACESETTER AWARD

The Forging Foundation was established in 1961 by the leaders of the Forging Industry Association to foster forging education and technology development in engineering schools and research universities. Sponsorship of ASM’s Materials Camps for Teachers has provided the opportunity to reach to a younger audience with whom the forging supply chain story can be shared.

In addition to the financial support, each teacher participant receives a set of materials for use back in their classrooms – the ‘Forge Your Future’ bag contains print and electronic materials covering the forging process and careers in the industry. Industry volunteers also get involved in local camp activities by making brief, informal presentations typically over lunch on—Metals Day—and share where forgings are found and how it applies to daily life.

Connections made at the camps have led to industry volunteers being invited to make classroom presentations and organize plant tours for student field trips. All building relationships between forging producers and supplier companies’ future workforce pipeline.

ASM MATERIALS EDUCATION FOUNDATION
STATEMENTS OF FINANCIAL POSITION
DECEMBER 31, 2015 AND 2014

ASSETS

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRENT ASSETS</td>
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<td></td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>$ 19,812</td>
<td>$ 11,570</td>
</tr>
<tr>
<td>Current portion of pledges receivable</td>
<td>72,052</td>
<td>35,221</td>
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<tr>
<td>Accounts receivable - ASM International</td>
<td>91,884</td>
<td>215,026</td>
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<td>PROPERTY AND EQUIPMENT, net</td>
<td>5,950</td>
<td>5,950</td>
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<tr>
<td>OTHER ASSETS</td>
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<tr>
<td>Pledges receivable, net of discount</td>
<td>31,866</td>
<td>36,676</td>
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<td>Investments</td>
<td>10,930,861</td>
<td>11,895,469</td>
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<td></td>
<td>10,962,727</td>
<td>11,932,145</td>
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<td></td>
<td>$ 11,060,541</td>
<td>$ 12,153,121</td>
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LIABILITIES

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<th>2014</th>
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<tbody>
<tr>
<td>CURRENT LIABILITIES</td>
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</tr>
<tr>
<td>Line of credit</td>
<td>$ 675,177</td>
<td>$ 720,177</td>
</tr>
<tr>
<td>Accounts payable and accrued expenses</td>
<td>18,141</td>
<td>7,086</td>
</tr>
<tr>
<td>Accounts payable - ASM International</td>
<td>94,977</td>
<td>-</td>
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<tr>
<td>Other</td>
<td>3,500</td>
<td>39,808</td>
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<td></td>
<td>791,795</td>
<td>767,071</td>
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NET ASSETS

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unrestricted:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>2,715,844</td>
<td>3,100,744</td>
</tr>
<tr>
<td>Board Designated</td>
<td>5,574,297</td>
<td>6,216,162</td>
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<tr>
<td>Temporarily restricted</td>
<td>1,075,344</td>
<td>1,222,158</td>
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<tr>
<td>Permanently restricted</td>
<td>903,261</td>
<td>846,986</td>
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<tr>
<td></td>
<td>10,268,748</td>
<td>11,386,050</td>
</tr>
<tr>
<td></td>
<td>$ 11,060,541</td>
<td>$ 12,153,121</td>
</tr>
</tbody>
</table>

The accompanying notes are an integral part of these financial statements.

REMEMBERING ROBERT D. HALVERSTADT
We lost a cherished friend, leader, and champion of the ASM community in 2015 with the passing of board member Robert D. Halverstadt. Bob served the Foundation with distinction in his role as a Trustee since 2007 and has our profound gratitude and appreciation for his support and remarkable influence. His vision and leadership will have a lasting effect and we will be forever grateful for his service and dedication.
Friends $99 & under (continued)

Farmer, Janice
Flores, Katharine M.
Flury, Margaret T.
Fraikor, Frederick J.
Fraker, Anna C.
French, Stephen M.
Froetschel, Joseph R.
Fry, Marc
Fujikawa, Hisao
Gaddy, Glen
Gagg, Timothy P.
Garrett, Steven M. I.
Giamei, Anthony F.
Gibbs, David
Goma, Kanji
Gonzalez, Sandra Cristina
Gorton, Kinyon J.
Greenlay, Anne & Terry
Gregory, Joseph W.
Guarini, Roberto
Guclu, Mustafa
Hadjioannou, John
Halbig, Michael
Hallquist, John O.
Halsey, William G.
Hamers, Steve
Harris, Kenneth
Harris, Leonard
Harrison, Steve L.
Heard, John W.
Hock, Gregory
Hoffman, Raymond T.
Hoffmann, Glenn C.
Hubbard, Camden R.
Huff, Amy
Hull, Frederick C.
Hurst, James J.
Ito, Tsutomu
Jackson, Peter
James, Brad
Janavicius, Paul
Jenkins, James F.
Jessen, Jr., Nicholas C.
John Glenn Research Center
Johnson, David L.
Johnson, Jana
Johnson, Kevin
Kamvar, Parviz
Keiser, James R.
Kiser, Matthew T.
Knorovsky, Gerald A.
Koplik, Ardan
Kottke, William C.
Kovarik, Rebekah
Krusse, Brandon
Kuntz, Jason P.
Laftery, Ronald C.
Last, Howard R.
Lavoie, Jean
Lazaridis, Nassos A.
Leggett, Daniel C.
Legvar, Joseph
Leitch, Daniel B.
Lentz, Charles W.
Levy, Victor
Liu, Qianchu
Lonsbury, Eric
Lynch, Richard F.
Macaulay, Lyle
MacDonald, William D.
Mahanes, Harold P.
Mahy, Tyler X.
Marble, Wayne A.
Marx, Daniel R.
Massey, John R.
Matousek, Jan W.
May, William A.
McLaughlin, David
McLean, Alexander
McKelvy, Terry
McPhate, Andrew J.
Mejeur, Katie L.
Metz, John C.
Metz, Jr., Kenneth L.
Miller, Michael A.
Miller, Stuart
Miranda, Gaspar R.
Mobley, Carroll E.
Morris, Greg
Morris, John D.
Morrissey, III, Edmund J.
Munafo, Paul M.
Murphy, Serena
Myers, John T.
Nagata, Peter K.
Nagorka, Michael S.
Nakamura, Yuichiro
Narasimhan, Simon L.
Natore, Ron
Newell, Andrew
Oakes, Jim
O’Brien, David M.
Oeters, Ronald R.
Ormsbee, Charles J.
Ortega Urita, Miguel Isaac
Osmundson, Michael D.
Pai, Jainsinha
Painter, Jonathan
Parent, Isabelle
Parker, Miles
Payzant, Edward A.
Pechulis, Michael J.
Pereira, Luiz
Phillips, Barry W.
Pinkowish, Alex
Plehn, Edward J.
Pollien, Jean-Pierre
Pond, Robert B.
Power, Peter M.
Professional Analysis & Consulting Inc.
Puskur, Partha
Racek, Ondrej
Ransome, Mark
Rao, Ramesh C.
Rense, Charles E.
Rishel, Linda L.
Rose, Jr., A. D.
Rovertoni, Flavio M.
Rua, Joseph M.
Ruzauskas, Edward J.
Sabo, Karen
Saglimb, Mario
Salmiminen, Antti
Sampson, Mark
Sandrock, Gary D.
Seaver, Scott
Sellers, Susan
Seren, Joseph J.
Shemkunas, Michael P.
Sherman, Andrew M.
Silencer Co.
Silicon Valley Community Foundation
Silva, Eugene A.
Singh, Jatinder P.
Sirios, Ernest J.
Smathers, David
Smialek, James L.
Smith, Carlisle
Sotiriou, George
Stinson, Jonathan S.
Stockdale, Anne M.
Stuart, Laura R.
Stults, Cheryl
Swartz, Anne Lisa
Swindeman, Robert W.
Takahashi, Tohru
Tanaka, Yasuhiko
Tartaglia, John M.
Thacker, Karen
Tilton, Mclane
Tramble, Madrid
Trice, Thomas
Trojan, Paul
Utter, Robert
Vandebrake, Ken
Vander Voort, George
Vatalaro, James F.
Vetterick, Gregory
Vichos, Peter
Villemure, Helene
Vittori, Stephen W.
Volz, Heather M.
Wallace, William
Warner, Terry
Warren, Benjamin A.
Washington, Jim
Wenzel, Kelly
White, Phillip R.
Whiteside, Glenn G.
Whittenberger, J. Daniel
Wicks, George G.
Wilhelm, George F.
Williams, Dean
Williams, Heidi
Witt, Dale
Witham, John P.
Wood, Elizabeth
Wright, Kenton B.
Yamada, Yoshiro
Yasinskly, Alexey
Yokota, Hideo
Young, Barbara
Ashok K. Khare is president, Ash Khare Consulting LLC. He is a metallurgical engineer and his education includes B.Sc., B.Tech., and M.S. degrees. He has served as an active member and volunteer on numerous ASM International committees since 1977. Over the past 16 years, Khare has been an integral part of the ASM Materials Education Foundation’s growth strategy and has made significant contributions with regard to governance, nominating, awards, fundraising, and the Foundation Pillars Society. He also served as a valued member of the ASM Materials Education Foundation’s board of trustees from 2001 to 2015. Khare received the ASM Fellow award in 1983, Allan Ray Putnam Service Award in 1990, and the ASM Honorary Life Member award in 2007. In addition, he is a Life Member of the National Academy of Sciences in India.

PILLARS SOCIETY

The Pillars Society honors individuals who support the ASM Materials Education Foundation through charitable bequests, life income gifts, and trusts. The program was established as a way to thank those who have recognized the future needs of the Foundation in their personal estate plans. Membership into the Society is open to any member who confirms a bequest or other form of planned gift to the Foundation.

The name ASM Pillars Society is based upon the symbol of the Foundation, representing the four Pillars of our purpose:

- Education
- Knowledge
- Leadership
- Service

Riad I. Asfahani
Dr. and Mrs. Aziz I. Asphahani
Don and Marilyn Blickwede
Richard D. Brams
Dr. and Mrs. Spencer H. Bush
Wilford H. Couts Jr.
W. Raymond Cribb
Mary and Ray Decker
Dr. Daniel P. Dennies
Mr. and Mrs. W. William Dyrcacz
Mr. and Mrs. William Hunt Eisenman
Mr. and Mrs. Arthur E. Focke
Gordon and Ann Geiger
R. G. “Gil” Gilliland
Diane Goldin
Maryella and Robert D. Halverstadt
Mr. and Mrs. Walter C. Hollander
Mr. and Mrs. Ashok Khare
Mr. Fred Kisslinger
William P. Koster
Edward H. Kottcamp, Jr.
David and Barbara Krashes
Dr. George Krauss
Warren H. Krogstad
William D. Manly
Dr. and Mrs. Donald Muzyka
Professor Jagdish Narayan
Mr. and Mrs. John P. Nielsen
Andy and Jane Nydam
Ron and Cheryl Parrington
Mr. and Mrs. Greg Petrus
John and Nancy Pridgeon
Mr. and Mrs. Ivan Racheff
Bhakta B. and Sushama Rath
Mr. and Mrs. William A. Reich
George A. Roberts
Alton D. and Julie Romig
Karen Sabo
Dr. Frederick E. Schmidt
Lyle H. Schwartz and Celesta S. Jurkovich
Dr. William W. Scott, Jr.
Roch J. Shipley
Jack and Ene Simon
Edward E. Slowter
Robert Sparks
Tom and Jan Stoebe
Dr. and Mrs. Carl E. Swartz
R. C. Tucker, Jr., PhD, FASM
Julius L. Turk
Mr. and Mrs. Kent R. Van Horn
Dr. Christopher Viney and Dr. Lisa Gilliland-Viney
Dr. and Mrs. Charles A. Wert

2015 GEORGE A. ROBERTS AWARD
Ashok K. Khare

2015 KISHOR M. KULKARNI HIGH SCHOOL TEACHER OF THE YEAR

Jim Curiel
An instructor and chair of Materials Science, Engineering, and Technology at Don Bosco Technical Institute, California.

If you made estate plans that include ASM Materials Education Foundation and would like to be listed as a member of the Pillars Society, please contact Nichol at 440-338-5151 ext. 5506.
ASM CHAPTER PARTNERS
ASM Chapters play a key role in the growth and expansion of ASM Foundation programs. Through volunteering, organization, and hosting of a Materials Camp, as well as providing a network of speakers and mentors, the ASM membership contributes to educational outreach within the organization.

ASM Akron
ASM Alamo
ASM Albuquerque
ASM Boston
ASM Brandywine Valley
ASM Calgary
ASM Calumet
ASM Chicago Regional
ASM Cincinnati
ASM Columbus
ASM Dayton
ASM Detroit
ASM Eastern Virginia
ASM Edmonton
ASM Hartford
ASM Houston
ASM India
ASM Indianapolis
ASM Kansas City
ASM Lehigh Valley
ASM Los Alamos
ASM Los Angeles
ASM Metro New York-New Jersey
ASM Milwaukee
ASM Minnesota
ASM Northwestern Pennsylvania
ASM Oak Ridge
ASM Old South/Greenville
ASM Ontario
ASM Oregon
ASM Ottawa Valley
ASM Peoria
ASM Philadelphia
ASM Pittsburgh Golden Triangle
ASM Puget Sound
ASM Pune
ASM Quad Cities USA
ASM Rhode Island
ASM Saginaw
ASM South Central Pennsylvania
ASM Twin Tier
ASM Utah
ASM Warren
ASM West Michigan

SCIENCE & ENGINEERING FAIRS
The ASM Foundation in partnership with Intel has participated, since 2001, in presenting one “Most Outstanding Exhibit in Materials Science” award at approximately 500 regional science & engineering fairs throughout the world.

“I would like to thank you for selecting my project for your ASM Materials Education Foundation Award at the Central New Mexico Research Challenge. Your support has helped me win 1st place in the Engineering category and the Grande Award at the State Science Fair. I had a really fun time sharing my project with the judges and I hope to see you again with a 3D printer next year!”
—ZACHARY FITZGERALD, ALBUQUERQUE, NM

“I wish to thank you immensely for the prize you gave for my project, ‘The search for the Most Effective Ice Melt’. Your encouragement has already sparked ideas for another science fair. Thank you!”
—REBECCA RAMTHUN, BOZRAH, CT

“I would like to thank you and the ASM Materials Education Foundation for recognizing my science fair project. I truly appreciate receiving the award of the Most Outstanding Exhibit in Materials Science and the medallion. I have never received a science medal before. It really makes you feel good when someone recognizes your hard work and efforts.”
—JUSTIN TODD, SAN DIEGO, CA

DAVID JIMENEZ
“Most Outstanding Exhibit in Materials Science”
Washington State Science & Engineering Fair
Sunnyside, WA

DAN AVILA
“Most Outstanding Exhibit in Materials Science”
Washington State Science & Engineering Fair
Sunnyside, WA
The camp was an amazing experience, helping me to better appreciate and grow in the sciences. I am so thankful for all of the wonderful opportunities that you were able to provide to me during my time at the camp and I can absolutely guarantee that the knowledge I gained will greatly influence my engineering pursuit at Virginia Tech.

—DOMINIC ANGELO, MURRYSVILLE, PA
“LIVING IN A MATERIAL WORLD”
K-12 TEACHER GRANTS

Twenty $500 grants awarded to K-12 teachers to develop and implement science activities in their classrooms.

Winning Proposals

1. Characterization Using Visible Spectroscopy, David Benedetto, Winchester High School, Massachusetts (Grades 10-12)
2. How Do You Use The Computer Interface To Effectively Teach Material Science? Etzel Brower, Egg Harbor Township High School, New Jersey (Grades 9-12)
3. Smart World Materials, Loris Chen, Michigan, Dwight D. Eisenhower Middle School, New Jersey (Grade 8)
4. The Great Tower Challenge, Karen Cobb, James Tillman Elementary, Florida (Grades K-5)
5. The Chemistry of Materials, Brooke Detty, Zane Trace Middle School, Ohio (Grade 7)
6. Materials Science in Engineering, Merle Green, Resurrection College Prep, Illinois (Grades 9-12)
7. How can students create plastic without using petroleum based materials? Meghan Hess-Shamdasani, South Tech Academy, Florida (Grades 9-12)
8. Materials Science, Eileen Hite, St. Clement of Rome, Louisiana (Grades 5-7)
9. Additive Manufacturing Filament Testing and Evaluating, Bill Hughes, Park Forest Middle School, Pennsylvania (Grades 6-8)
10. Chemistry of Materials Course, Ginger Keeton, Dixon High School, Missouri (Grades 10-12)
11. Furnace for High School Materials Science Classes, Jennifer Lawrie, Webb School of Knoxville, Tennessee (Grade 11-12)
12. Glass Inquiry: Now You See It, Now You Don’t, Nancy Manikas, Webb School of Knoxville, Tennessee (Grades 11-12)

13. Introducing a new course “Material Science and Engineering,” Hanan Mogawer, The Prout School, Rhode Island (Grades 10-12)
14. Pre-College Science Institute Robotics Program, Alice Myles, Fisk University, Tennessee (Grades K-6)
15. Chemical Reactions!: The Soda and Mentos Phenomenon, Jill Reed, Philipsburg-Osceola Middle School, Pennsylvania (Grade 6)
16. Electromagnets, Dale Rundgren, Mt. Olive Lutheran School, Kansas (Grade 5-8)
17. A GIANT Polymer Periodic Table Project, Jennifer Sherburn, Hesperia High School, Michigan (Grades 10-12)
18. Scientists in Residence, Karen Stringer, Highline School district Residential Program, Washington (Grades 9-12)
19. Mobile Materials Lab, Lisa Wininger, Plainwell Middle School STEM Academy, Michigan (Grades 6-7)
20. Pixel Power, Teresa Zimmer, Cherokee Elementary School, Alabama (Grade 3-5)

EISENMAN MATERIALS CAMP

BENEFACTORS

Permanently Endowed Student Scholarships

Air Products Inc.
Doug Allan, FASM, and the Dave Fallen Memorial
John and Marian Andrews
Wendy Asphahani
Bruce E. and Marilyn L. Boardman
Buehler and Employees
Mary Hegler Carus
Mary and Ray Decker
William and Mary Dyrkacz
Ellwood Group, Inc.
Engineering Systems Inc. and Professional Staff
Diane Goldin
Maryella and Bob Halverstadt
William Hunt Eisenman Estate
William P. Koster
William D. Manly
Mary P. Muzyka
Northwest Pennsylvania ASM Chapter and Friends
Jeanne and Richard Pfitzer
John and Nancy Prigeon
George A. Roberts
R.P. Simmons Family Foundation
Bruce and Marilyn Boardman
Paul and Frances Huber
Donald and Eileen Muzyka
STUDENT CHAPTER GRANTS

This program launched in 2001 and supports Material Advantage student chapters’ K-12 outreach activities that align and advance the Foundation’s mission. Since inception, 72 grants have been awarded.

Five grants awarded in 2015 to:
• Colorado School of Mines
• Virginia Tech
• Rensselaer Polytechnic Institute
• University of Texas at El Paso
• Auburn University

The goal of CSMMAC outreach is to introduce students and the general public to metallurgy and materials science and engineering through demonstrations, interactive discussion, and tours of metallurgy departments. Demonstrations are held at elementary and high school science days, college outings, and community festivals. A new approach recently implemented allows the students to travel to Hill Hall and experience live testing and equipment use. All demos can be used for K-12. The goal for younger grades is to implement a “wow” material science is cool factor, while the later high school classes emphasize expanding vocabulary and navigating interest towards college and career opportunities.

2015 UNDERGRADUATE DESIGN COMPETITION

Design ... a critical component to revitalize engineering in materials education.

• First Prize: $2,000 + $500 travel assistance + $500 to the department for support of future design teams
  Winner: California State Polytechnic University-Pomona
  Title: “Design of Diffusion Coatings: Effect of Process Control on Microstructural Evolution”

• Second Prize: $1,500 + $500 travel assistance
  Winner: Carnegie Mellon University
  Title: “Recycling of Specialty Metal Plant By-Products”

• Third Prize: $1,000 + $500 travel assistance
  Winner: Michigan Technological University
  Title: “E357 Alloy Design To Increase Elongation and Maintain Strength”

2015 NATIONAL MERIT SCHOLAR

The ASM Materials Education Foundation has been participating in the National Merit Scholarship Program since 1964. The National Merit Scholarship Corporation is a not-for-profit organization with a portion of its scholarship activities underwritten by some 500 independent corporate, college, and foundation sponsors like the ASM Foundation.

Nicholas Han
Westview High School

Eagle Crest high school materials program at a Colorado School of Mines outreach event.
Thank you for this opportunity to continue my education in science. I so appreciate the Foundation funding my participation. I have doubled the number of hands-on activities for my students in this one week of excellent presentations! Thank you for the materials and the plethora of ideas.

— TEACHER PARTICIPANT, KANSAS CITY, MO
2015 UNDERGRADUATE SCHOLARSHIP PROGRAM

19 scholarships totaling $110,000

WILLIAM PARK WOODSIDE FOUNDER’S SCHOLARSHIP
1 Anna Bretzke
Missouri University of Science & Technology

THE LUCILLE AND CHARLES A. WERT SCHOLARSHIP
2 John Coffey
The Ohio State University

GEORGE A. ROBERTS SCHOLARSHIPS
3 Mary Cole
University of Akron
4 Ziyin Huang
Drexel University
5 Colin Lunstrum
University of Idaho
6 Rachel Sylvester
The Ohio State University
7 Cyrus Thompson
University of Wisconsin-Madison

WILLIAM & MARY DYRKACZ SCHOLARSHIPS
8 Taylor Brown
University of Alabama at Birmingham
9 Katrina Catledge
Wright State University
10 Nathaniel Griffen
Missouri University of Science & Technology
11 Zach Jensen
University of Wisconsin-Madison

DAVID J. CHELLMAN SCHOLARSHIP
12 Peter Barber
LeTourneau University

LADISH CO. FOUNDATION SCHOLARSHIP
13 Misty Pulcine
University of Wisconsin-Madison
14 Allison Weber
University of Wisconsin-Madison

OUTSTANDING SCHOLAR AWARDS
15 Allison Fraser
Lehigh University
16 Alexander Lark
University of Utah
17 Theresa Saenz
Purdue University-West Lafayette

EDWARD J. DULIS SCHOLARSHIP
18 Daniel Balder
University of Minnesota

JOHN M. HANIAK SCHOLARSHIP
19 Alexander Hall
Pennsylvania State University
“Promoting the future of materials science is something I am very passionate about. ASM does such a great job of putting money from generous donors to use. I can’t count the number of times I have heard incoming students say that they became interested in materials engineering after attending the materials camp sponsored by the ASM Foundation. I am so honored to have been selected to receive this scholarship and could not be more grateful for your generosity and commitment to the future of materials science and engineering. I am proud to be a part of such a supportive and intelligent network of people and hope to someday be able to help support up and coming engineers in return for all that ASM has already done for me.”

—ANNA BRETZKE

“With the help of the ASM Materials Education Foundation Outstanding Scholar Award, I will be able to continue my education at Lehigh in a fulfilling and rigorous department that will prepare me for the metallurgy industry. By continuing my education with the help of such scholarships, I will be able to contribute my skills to the metallurgical field upon graduation and make a difference in the world. Without your support, this would not be possible, so I wish to sincerely thank you for helping to make my dreams a reality.”

—ALLISON FRASER

THANK YOU!
Together we are inspiring students to explore new worlds through hands-on discovery and to become materials pioneers of the future.