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The Year in Review

Mission-Driven Governance

AIME is governed by a Board including 2 Trustees from each of its 4 Member Societies and the Executive Director. This year the group welcomed two of the four Member Society Executive Directors as part of the Board. Most work is done by AIME’s Audit, Investment, and History and Heritage Committees. We thank volunteers serving in these capacities as well as other Member Society representatives on external award committees as shown on the following page:
## AIME Committee Assignments 2019-2020 FINAL

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<tr>
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<th>Audit Committee</th>
<th>Investment Committee</th>
<th>History and Heritage Committee</th>
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<td>Jim Robinson</td>
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<td>TMS</td>
<td><strong>George Luxbacher</strong> (Chair); George Luxbacher; Brett Wichtert</td>
<td>Ta Li (Chair); George Luxbacher; Brett Wichtert</td>
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<td>SME</td>
<td>Ron Ashburn</td>
<td>Mark Didiano</td>
<td>Kevin Zeik, Chair</td>
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<td>AIST</td>
<td>Michele Lawrie-Munro</td>
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- SPE
- TMS
- SME
- AIST
- AIME

### Member Society Award Ctes

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### AAES

- Emerging Leaders Alliance
  - James Whitaker
  - Debby Hixon
  - Mona Vandervoort
  - Chris McKelvey, Jamie Blick
  - Michele Lawrie-Munro

### DiscoverE Family Day Outreach

- Mike Kaas and other SME-DC Section members; NMA staff
- Michele Lawrie-Munro

### Hoover Award

- George Koperna
- Oladele A. Ogunseitan

### Noble Prize

- Boyd Davis

### Washington Award

- Carlos Torres-Verdin, UT Austin

### National Inventors Hall of Fame

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**Note:** Abbreviations: SPE, Society of Petroleum Engineers; TMS, Technical Activities Management System; SME, Society of Manufacturing Engineers; AIST, American Institute of Lighting Technologies; AIME, American Institute of Mining, Metallurgical, and Petroleum Engineers.
AIME’s History and Heritage Committee is focused on AIME awards and recognition, preserving and enhancing legacy, and special projects.

AIME Awards and Scholarships

AIME funds the annual conferring of 25 awards, including Honorary Membership, as well as 5 scholarships. Many of these carry the namesake of icons within the AIME disciplines of mining, metallurgical, and petroleum engineering, the iron and steel industry, and materials science. Member Society staff and committees administer most of these for the AIME Board and the AIME President presents them during annual conferences. In 2019, the group published articles for award namesakes in Member Society journals. More information can be found at http://aimehq.org/programs/honors-awards.

Preserving and Enhancing AIME’s Legacy

AIME continues to partner with 7 other groups to enhance the Engineering and Technology History Wiki (www.ethw.org). This invaluable resource contains articles, biographies, and interviews of important figures and historical events and innovations in multiple engineering disciplines. There are also lesson plans and interactive landmarks across the globe and timelines of important milestones within particular disciplines over the course of human history. AIME has included Mining and Materials timelines, as well as its own and Member Society archives from its nearly 150 year history – most can be found under the main heading of “Materials” and “Energy”. Users can also create a free account to include their own autobiography or preserve their experiences.

Special History and Heritage Projects

AIME’s History and Heritage Committee captured 11 new oral histories of prominent members in 2018, 12 in 2019, and 6 in 2020 with the help of students, staff, and peers, most at Member Society annual conferences. AIME staff coached participants on the process and ran recording equipment. Uploaded material is accessible at http://aimehq.org/programs/oralhistories; new captures will be released monthly. Follow AIME on Facebook or Twitter to learn about new releases.

AIME also approved SME’s President to deliver congratulatory resolutions to SME’s Minnesota and Pittsburgh sections, which celebrated their 100th anniversaries in 2020. It will also begin sending these to sections celebrating their 75th or 100th milestones. Finally, AIME adopted a new logo and pins, had a kiosk at Member Society annual conferences to promote its legacy work, and will update its website leading up to its 150th anniversary in 2021.

Finally, AIME’s President, Executive Director, and Treasurer attended the Offshore Technology Conference’s 50th Anniversary in May 2019. AIME was a founder of the international event.
AIME’s External Affairs are overseen by the AIME Board with Member Society volunteer participation on several joint engineering society award committees.

External Awards and Recognition

Member Society members are also eligible for 25 joint engineering society awards. For example, SPE member, David Baldwin, received the 2018 Hoover Award for over 25 years committing time and skills to The Center, a Houston-based organization (non-profit) dedicated to empowering adults with intellectual and developmental disabilities (I/DD) and for co-founding Pursuit, a capital campaign, which transformed the organization’s future and raised $13.6 million to further its mission. AIME promotes these opportunities via social media. Details can be found at http://aimehq.org/programs-honors-awards.

Interaction with External Entities

AIME and Member Society leadership represented the groups at the United Engineering Foundation (UEF) Board meeting at ASME offices in New York last fall. UEF gives over $800,000 in grants annually to deserving 501(c)3 organizations which advance engineering.

AIME and its Member Societies were also represented at other joint engineering society events in Washington, DC: the National Academy of Engineering’s Convocation, where the group heard from a distinguished panel on Diversity and Inclusion in Engineering as well as legislators on Capitol Hill at the ASME-led Public Policy Symposium. The American Association of Engineering Societies (AAES) is currently going through a dissolution process. AIME’s Member Society, SME, will be administering the joint engineering society, Fritz Award, for the groups beginning 2021. Finally, AIME provided support for SME’s DC section and Coal Foundation and National Mining Association staff, who volunteered to represent the groups during eWeek at the DiscoverE’s Family Day outreach.

Collaborative Programs

AIME is one of 9 partners in the Emerging Leaders Alliance (ELA) young leaders training. In 2019, AIME hosted 6 young professionals, including 1 AIST member, 1 ACI member, 3 NIOSH employees (and SME members), and 1 SPE member, at this interactive conference. AIST staff manage the program for this important joint leadership initiative.
Foundational Role

AIME’s Investment and Audit Committees work hard to ensure that AIME can support its special initiatives as well as provide tangible monetary support to its Member Societies. SME Past President (and AIME Treasurer), Ta Li, chaired AIME’s Investment Committee and SME Past President, (and AIME President-Elect), George Luxbacher, chaired AIME’s Audit Committee.

For many years, AIME has provided 50% of surplus to its Member Societies to use as they see fit. From 2017 surplus, AIME issued over $164,000 to each organization in 2018. The AIME Board voted in December 2019 to stabilize these distributions, providing $50,000 per year for the next 5 years to each Member Society. During this pandemic year, AIME provided the initial distribution for use as the groups see fit. Going forward, their Boards are to submit proposals for a long-term project critical to the Member Society which enhances and promotes the legacy and branding of AIME within their organization.

Of the remainder AIME surplus, 10% has been allocated to AIME 150th anniversary activities. AIME is funding celebrations at the Member Society annual meetings beginning with SPE ATCE in Houston October 12-14, 2020, as well as special projects being produced by SPE and TMS/SME for use at those functions. The AIME Board has also been a Member Society Foundation donor giving $1,000 to each group annually since 2016.

Hani Heinen
2019 President

Michele Lawrie-Munro
Executive Director
President's Notes

It is normal that one can never predict the challenges and issues that have to be addressed during one’s Presidential term. Following on the footsteps of good Volunteer Leaders that have served recently as well as those stepping down from the AIME Board as Trustees or as Officers, I am humbled looking back at my year on their dedication and inspiration to AIME. I am also grateful for the efforts, loyalty and hard work that our Executive Director, Michele Lawrie-Munro, contributes to AIME. This has been a year unprecedented in AIME’s 149 year history, largely because of the arrival of the COVID-19 pandemic that played a major part of the restructuring of the activities of AIME this year. Our first Safety Congress posed to be a stupendous success due to the hard work of Roland Moreau as its Chair, Ron Ashburn and Jim Robinson carrying the main responsibility for the management, hotel arrangements, advertising, fund raising, and all things necessary for event planning. Due to the pandemic, it had to be postponed.

As you read in the detailed report, the Board worked at making the funds distributed to the Member Societies more predictable over the next few years. This effort also helps streamline and simplify AIME’s administrative activities. AIME is still awaiting the transfer of its registration to Colorado from New York. In the midst of this transfer we embarked on a new governance structure for the Board, one that will hopefully help AIME be more efficient and effective. But, it also identified challenges in updating AIME’s Conflict of Interest Policy which is an ongoing effort.

AIME continued its legacy programs of Awards and Scholarships as well as the building of its library of Oral Histories. These activities remain the hallmark of the history and stature of AIME.

With this I wish to extend to my fellow Trustees my acknowledgment for their support, commitment and efforts on the Board. Special thanks go to retiring Trustees, Ta Li, who has also served as Treasurer the past three years, and Roland Moreau, who very ably leads the Safety Congress and has updated Bylaws and Operating Practices for future consideration of the Board when AIME becomes a Colorado entity. I look forward to learning of the Member Society celebrations for AIME’s 150th anniversary and wish new and continuing Trustees the best for continued success of AIME.

2019 AIME President
The 148th AIME Annual Board Meeting was held at SPE headquarters in Dallas, TX August 1-2, 2019. The group toured the building and heard overviews of SPE activities from VP Information and Member Services, John Boden, VP Communications, Glenda Smith, and Chief Operating Officer, Stephen Graham. The official Board meeting was held Thursday and Friday. On Friday evening, attendees toured the historic DeGolyer mansion followed by dinner at the Dallas Arboretum. Everette DeGolyer was an AIME/SPE member - SPE confers the DeGolyer Award to one of its members annually.
New AIME 2020-2021 Officers and Trustees

PRESIDENT

George Luxbacher  
(SME - Term ends 2022)

Dr. George W. Luxbacher is vice president of operations with Glenn Springs Holdings, a subsidiary of Occidental. Dr. Luxbacher manages Occidental’s RCRA and CERCLA liabilities related to the oil and gas, chemicals and former mining-business segments. Among other responsibilities, he deals with issues related to acid mine drainage from former coal and copper mining sites. Dr. Luxbacher is the co-inventor of a process to dredge and refine phosphorus-bearing sludge into a marketable product and, as part of that work, developed, designed and constructed a phosphorus recovery plant in Tennessee. Dr. Luxbacher is a registered professional engineer and a Centennial Fellow of the Pennsylvania State University’s College of Earth and Mineral Sciences. He earned B.S., M.S. and Ph.D. degrees in mining engineering from the Pennsylvania State University. Dr. Luxbacher is a past-president of OneMine.org and a member of the SME Foundation Board of Trustees. He was president of SME in 2008. He is the founder of the Coal & Energy Division scholarship auction and luncheon speaker programs. He has served as chair of the division and on the Executive Committee of the Central Appalachian Section. He served on the ad hoc committee for SME Governance and was a driving force to create the Education Strategic Committee.

PRESIDENT-ELECT

Kevin Zeik  
(AIST - Term ends 2021)

Dr. Kevin L. Zeik graduated from The Pennsylvania State University with a Ph. D. in Metals Science and Engineering in 1991. His graduate work was focused on copper – niobium microcomposites for the hypersonic aerospace program, working as a Researcher at the Ames Laboratory, Iowa State University. Upon graduation, Zeik joined the United States Steel Corporation Research Center in Monroeville, PA as a Senior Research Engineer working on electron microscopy and surface sciences of steel products. In 1994, he moved into the failure analysis group as an Associate Research Consultant, and two years later, he was named Research Manager for the failure analysis, computer modeling and welding groups. Zeik moved to the Materials Technology section in 1999, serving as Research Manager of the group until 2002, when he advanced to Technical Director. In 2004, Kevin was named Director - Process Technology Division where he oversaw efforts to improve process efficiency from mining operations through iron and steelmaking and into finishing and coating processes. He focused on the adaptation of existing processes and development of new processes to meet the demands presented by the production of new high performance steel grades. In that year, the Research and Technology was moved to its current location in Munhall, PA. In August 2008, he was advanced to his current position, General Manager – Research for United States Steel Corporation where he is now responsible for directing all research and development activities associated with flat rolled and tubular steels and steel solutions.
Zeik has been a member of AIST and its predecessor organization, ISS, for over 20 years. He has held the positions of Chair – Mechanical Working Division of ISS, and served on the Board of Directors of AIST, including the transition team from ISS to AIST.

**PRESIDENT-ELECT DESIGNATE**

![Jennifer Miskimins](image)

**Jennifer Miskimins**  
*(SPE - Term ends 2022)*

Dr. Jennifer L. Miskimins is an Associate Professor and the Associate Department Head in the Petroleum Engineering Department at the Colorado School of Mines. Dr. Miskimins holds BS, MS, and PhD degrees in petroleum engineering and has split her career between industry and academia with appointments at the Colorado School of Mines, Marathon Oil Company and Barree & Associates. She has been with the Colorado School of Mines in various capacities since 2002. Dr. Miskimins specializes in well completions, stimulation, hydraulic fracturing, and associated production issues. She is the founder and current Director of the Fracturing, Acidizing, Stimulation Technology (FAST) Consortium and also co-directs the Center for Earth Materials, Mechanics, and Characterization (CEMMC). Her research interest focus on the optimization of stimulation treatments and the importance of such on associated recovery efficiencies.

Dr. Miskimins is currently the Completions Technical Director on the SPE International Board of Directors serving a term through September 2018. She was an SPE Distinguished Lecturer in 2010-2011 and 2013-2014 on hydraulic fracturing in unconventional reservoirs. In 2014, she was awarded the SPE International Completions Optimization and Technology Award. Dr. Miskimins serves on a variety of conference organizing committees and as a technical editor for various journals. She is a registered Professional Engineer in the State of Colorado.

**PAST PRESIDENT**

![Hani Henein](image)

**Hani Henein**  
*(TMS - Term ends 2021)*

Hani Henein is a Professor at the University of Alberta and Director of the Advanced Materials and Processing Laboratory (AMPL). Henein earned a B.Eng. and an M.Eng. in Metallurgical Engineering (1972 and 1976, respectively) from McGill University. In 1981, he received his Ph.D. from the University of British Columbia and joined the faculty at Carnegie Mellon University in Pittsburgh, Pennsylvania. He joined the University of Alberta in 1989 and is a registered Professional Engineer in the Province of Alberta.

The main thrust of Henein’s research at Alberta and as Director of the AMPL is to develop new techniques for improved operation of current processes and to develop new near-net shape processing routes. This research entails the understanding of the relationship among processing, structure, and properties and making this understanding accessible on-line to process operators. Some recent areas of interest in research include: particulate mixing and segregation, rapid solidification, zone refining,
strengthening microalloyed steels, and WC-Ni composites for wear applications. Henein holds one patent, has published more than 140 papers, edited nine books, and consults in the United States, Canada, and Europe.

His research and professional efforts have received wide recognition, including best paper awards such as the Henry Marion Howe Medal from ASM International, the John Chipman Medal from the Association for Iron & Steel Technology (AIST), and the Best Paper Award from the Metallurgical Society (MetSoc) of the Canadian Institute of Mining, Metallurgy and Petroleum (CIM). He was given a Presidential Citation from the Iron and Steel Society (now AIST) and was the recipient of the Silver Medal of MetSoc (CIM). He has received the prestigious Killam Research Fellowship and is a Fellow of the Canadian Academy of Engineering, of CIM and ASM International.

Henein has held senior leadership positions in AIST and TMS. He has served on the AIST and TMS Board of Directors and is a Past President of TMS (2014).

Non-Officer Trustees

**Ronald Ashburn**

(AIST)

Ronald Ashburn is the first executive director of the Association for Iron & Steel Technology (AIST), having served in that capacity since the organization’s founding in January 2004. In his role as executive director, Ashburn is responsible for oversight of business operations and strategic planning initiatives for AIST and the AIST Foundation. He formerly served as the eighth managing director for the Association of Iron and Steel Engineers from 2002 until its merger with the Iron & Steel Society, which led to the formation of AIST. Prior to joining AISE, he worked 16 years with Mannesmann Demag, a global builder of steel plants, first joining them in 1986 as a mechanical engineer in their Continuous Casting Division. In 1996, Ashburn was appointed director of technology for steelmaking and casting, and in 1997 he became vice president — casting and hot rolling. In 1999, SMS and Mannesmann Demag merged to form SMS Demag, where he served as vice president — operations for their Steelmaking and Casting Division in Pittsburgh, Pa., USA. Ashburn received his B.S. degree in mechanical engineering from the University of Pittsburgh (1987) and participated in metallurgical process training at University of British Columbia (1987) and global business management training at the University of Virginia (1998). He served on the board of directors for Visit Pittsburgh and was a member of its executive committee.
Dave Kanagy
(SME)

Since joining SME in 2004, Kanagy has been largely responsible for the Society’s success. Focusing on growth, innovation and opportunity, SME has become the world's largest mining related organization. He is the recipient of two prestigious awards including the Colorado Society of Association Executives’ Professional of the Year award and the Mining and Metallurgical Society of America’s Gold Medal award. He has a B.S. degree in industrial education from the University of Maryland, a M.S. degree in technology education from Eastern Illinois University and is a certified association executive by the American Society of Association Executives.

Jim Robinson
(TMS)

James J. Robinson has held a number of positions within TMS since joining the Society in 1984 as an editorial team member for JOM. Prior to becoming executive director in 2012, he held the position of deputy executive director. In that position, Robinson managed the development and execution of the Society’s programs and supported the Board of Directors, the Executive Committee, and other volunteer bodies, inclusive of governance and strategic planning activities. He also supports the efforts of the TMS Foundation as an ex-officio member of the Board of Trustees. Robinson’s past positions with the Society include serving as Chief Operating Executive, Director of Knowledge Management and Communication, and Editor of JOM (TMS’s membership journal). He still contributes to JOM as a monthly columnist.

Robinson is an ASAE Certified Association Executive (2009). Academically, he earned his M.A., corporate communication, from Duquesne University (Pittsburgh, Pennsylvania) and his B.A., journalism and communications, from Point Park University (Pittsburgh, Pennsylvania). His non-materials professional affiliations include ASAE, the Council of Engineering and Scientific Society Executives, and the Pittsburgh Society of Association Executives.
Mark Rubin
(SPE)

Mark Rubin is responsible for overall management of SPE. He works with the Board of Directors and senior staff to develop strategic and business plans and formulate the organization’s goals, objectives, policies, and programs. He also organizes and directs the global staff organization, which includes offices in Dallas, Houston, Kuala Lumpur, Dubai, London, and Moscow, to ensure the accomplishment of SPE’s mission.

He was appointed executive director of SPE in August 2001. Prior to this appointment, he served as upstream general manager for the American Petroleum Institute (API) in Washington, D.C. He joined API in 1988 and held a series of positions working on federal regulatory and legislative matters as well as technical standards development.

A member of SPE since 1979, Rubin held petroleum engineering positions for Unocal in Houston and east Texas from 1981 to 1987 and for Buttes Resources in Dallas 1987–88. Rubin is a member of the American Society of Association Executives and Council of Engineering and Scientific Society Executives. He has been a member of the National Petroleum Council, Interstate Oil and Gas Compact Commission, and International Association of Oil and Gas Producers. He earned a BS degree in petroleum engineering from Texas A&M University and an MBA from Southern Methodist University.

Non-Voting Trustees

L. Michele Lawrie-Munro
Executive Director & Chief Bottlewasher

Michele Lawrie-Munro has been the Executive Director of the AIME since 2011 having been promoted from the Associate Executive Director position she held since May 2003. Her recent experience includes managing operations as well as leading multi-disciplinary, collaborative efforts.

In addition to the not-for-profit arena, she has used her management and marketing skills in the public and private sectors for telecommunications and professional services firms. She has been involved in research, leadership development and recognition initiatives and been a liaison on systems requirements. She has previously volunteered in leadership positions with the Boy Scouts of America and the Hugh O’Brien Youth Foundation. She received the Certified Association Executive (CAE) designation in 2014 and has a bachelor’s degree from the University of Colorado, as well as extensive corporate leadership training.
AIME Past Presidents - Active List

2019 – Hani Henein
2018 – Roland Moreau
2017 – John G. Speer
2016 – Nikhil Trivedi
2015 – Garry Warren
2014 – Behrooz Fattahi
2013 – Dale Heinz
2012 – George W. Luxbacher
2011 – Brajendra Mishra
2009 – Ian Sadler
2008 – Michael Karmis
2007 – Dan J. Thoma
2006 – James R. Jorden
2005 – Alan W. Cramb
2004 – Robert C. Freas
2003 – Robert H. Wagoner
2000 - Robert E. Murray
1999 – Paul G. Campbell, Jr.
1998 – Roy H. Koerner
1997 – Leonard G. Nelson
1995 – Frank V. Nolfi, Jr.
1986 – Arlen L. Edgar
1983 – Edward E. Runyan
1982 – Harold W. Paxton

Photo of David Thomas
1871
First President of AIME
Recipients of Awards

Honorary Membership

Wendell Carter (AIST)
For his tireless contributions to the steel industry through his exceptional leadership and dedication to the Association for Iron & Steel Technology at all levels, including the AIST Foundation, AIST Executive Committee, and his tenure as 2016–2017 AIST president. His outstanding efforts to recruit young engineers to the steel industry and attract new members to the Association demonstrate his commitment to a sustainable future for the industry.

Maria A. Capello (SPE)
For her exceptional leadership in the oil and gas industry, as an SPE volunteer, and as an inspirational role model on three continents; and for her contributions as a managerial and technical leader, encouraging young professionals, the emergence of women as engineers, and technical specialists in the petroleum industry.

Anuj Gupta (SPE)
For his three decades of relentless professional service and great technical leadership to SPE and the oil industry, for his pioneering contributions piloting the SPE Certification program, and for his fierce devotion to stewarding petroleum engineering students into successful careers in the industry.

Franklin M. Orr, Jr. (SPE)
For his extraordinary analytical, laboratory, and numerical research in the field of CO2 enhanced oil recovery and storage/sequestration, his educational excellence and impactful management world-renowned education and research programs at Stanford University, and his service to the nation as Undersecretary of Energy.

Jeffrey B. Spath (SPE)
For his numerous significant contributions to academia, the Industry, and engineering in reservoir modeling, simulation, and management; for his exceptional service and leadership to SPE as the 2014 SPE President, and for establishing the Texas Oil & Gas Institute, serving as the inaugural CEO.

Ganesh C. Thakur (SPE)
For his distinguished scientific and engineering achievements in petroleum engineering focusing on Enhanced Oil Recovery, his successful innovations in reservoir management that impact the industry, and for his exceptional service and leadership as 2012 SPE President and as an AIME board member.

John O. Marsden (SME)
In recognition of service as SME president, unwavering commitment to the SME Foundation and its initiatives, leading the development of the Ph.D. Fellowship and Academic Career Development grant programs, for leadership and expertise in the field of mineral processing, inspirational mentorship, friendly can-do attitude, and energetic dedication to all the committees that have benefited from his guidance.

Korukonda Linga Murty (TMS)
For his contributions to the materials community through exemplary research and service in nuclear materials, high temperature deformation behavior, and nanostructured materials.
AIME Presidential Citation (formerly AIME Distinguished Service Award)

George Koenig
AIST
For his dedicated service to preserving and enriching AIME’s legacy through his enthusiastic participation on AIME’s History and Heritage Committee.

Rossiter W. Raymond Memorial Award

Lu Chi and Zoya Heidari
SPE
Directional-Permeability Assessment in Formations With Complex Pore Geometry With a New Nuclear-Magnetic-Resonance-Based Permeability Model

Charles F. Rand Memorial Gold Medal

Kamel Bennaceur
SPE
For his role as Minister of Energy in Tunisia, developing and implementing their energy plan, and restoring oil production to pre-revolution levels; for his role at the International Energy Agency leading economists and policy makers to develop mid- to long-term energy scenarios; and as Chief Economist for ADNOC advising on business, strategy and technical options to achieve the company’s vision.

Alexander J. Davidson
SME
In recognition of his key role in numerous acquisitions and discoveries and his leadership in developing Barrick’s unparalleled exploration program, which have resulted in remarkable achievements that distinguish his career and legacy at Barrick.

AIME Robert Earll McConnell Award

Ahmed S. Abou-Sayed
SPE
For expanding the natural resource base with his significant contributions to the drilling and improved recovery of oil, gas, and unconventional resources, and enhancing the standard of living with his work on injection technology best practices used for waste management and sequestration of oil field produced water, sulfur, CO2 and H2S.

James Douglas Gold Medal

Jiann-Yang (Jim) Hwang
TMS
For creative and exceptional contributions and leadership for the mineral processing and metallurgy community for over 40 years.

AIME Mineral Economics Award

Michael D. Doggett
SME
In recognition of a career at the forefront of evaluation and analysis of mining and exploration industry performance and his advisory roles to mining companies and organizations, financial institutions, and government bodies.
Mineral Industry Education Award

Manoj K. Mohanty  
SME
For his outstanding contributions to mining and mineral engineering education, as well as his research in the areas of coal and mineral processing.

Frank F. Aplan Award

Jaisen N. Kohmuench  
SME
For exceptional contributions to applied research, engineering development and commercial deployment of advanced flotation technologies.

Erskine Ramsay Medal

Sukumar Bandopadhyay  
SME
For his notable contributions to the development and advancement of Alaskan coal resources, advancement of health and safety, and productivity in coal mines through research and professional leadership in SME’s Coal & Energy Division.

Robert H. Richards Award

Jaime E. Sepúlveda  
SME
For contributions to the advancement of comminution, support of research and education, development of open-access, industrially-accepted simulation tools (Moly-Cop Tools) for improving and optimizing grinding circuit efficiency.

William Lawrence Saunders Gold Medal

Timothy D. Arnold  
SME
For a career devoted to making the mining industry a better, safer place to work.

Robert Peele Award

Emily J. Haas  
SME
Quick fixes to improve workers’ health: Results using engineering assessment technology.

Hal Williams Hardinge Award

Jessica Elzea Kogel  
SME
For her commitment and immeasurable contributions that have advanced the development and sustainability of industrial minerals.
Howard N Eavenson Award

Thomas A. Gray, P.E.  
SME

Thomas Gray’s contributions to the advancement of coal mining have focused recently on the presence of Rare Earth Elements (REE) associated with coal. His hope for his research is to add value to the coal industry and increase economic growth in the industry.

Daniel C Jackling Award

Mary M. Poulton  
SME

For her outstanding contributions to research and education, her vision in moving beyond the normal boundaries of university departmental constraints and her strong leadership in diversity in the mining industry.

Champ Mathewson Award

TMS

Marcel Risse  
Christoph Fahrnenson  
Marko Knezevic

Martin Lentz  
Walter Reimers  
Irene Beyerlein

Elevated Temperature Effects on the Plastic Anisotropy of an Extruded Mg-4 Wt Pct Li Alloy: Experiments and Polycrystal Modeling

and

Damien Texier  
Stephane Pierret  
Patrick Villechaime

Ana Casanova Gomez  
Jean-Michel Franchet  
Jonathan Cormier

Tresa Pollock

Microstructural Features Controlling the Variability in Low-Cycle Fatigue Properties of Alloy Inconel 718DA at Intermediate Temperature

Robert Lansing Hardy Award

TMS

Saryu Fensin  
Nan Li

Benjamin F. Fairless Award

Brian G. Thomas  
AIST

For his dedication to the steel industry in developing and sustaining industrial and academic collaborations both nationally and internationally. A globally recognized expert in continuous casting and tireless researcher, his work in partnership with industry has provided countless impactful scientific publications, innovations and tremendous insight for the industry over the past 30 years.
J.E. Johnson Award

Kyle Ferron
AIST

Anthony F. Lucas Gold Medal

Carlos Torres-Verdin
SPE

For his extraordinary scientific contributions to the industry in the realm of geophysical measurements and reservoir characterization, and developing groundbreaking methods for the petrophysical interpretation of multiple well logs that have been successfully adopted by service and operating companies.

DeGolyer Gold Medal

Hemanta K. Sarma
SPE

For his outstanding contributions to SPE through teaching, research, and professional service, as well as his contributions to the oil and gas industry exhibiting tremendous originality, creativity, dedication, and leadership.

Hunt-Kelly Outstanding Paper (AIST) – 2019

* Partially funded by the AIME Robert W. Hunt Fund

First Place:  State of the Art’ HSS Work Roll for Later Stands (F4-F7) in Hot Strip Mill Finishing Trains

Nozomu Oda
Paul Fleiner
Yasunori Nozaki
Tatsuya Tokunaga
Takumi Oohata
Hidenori Era

Note: The $5,000 prize will be divided equally among the authors.

Second Place:  Automation Enhancements to Improve Steel Production, Yield, Quality and Cost at the Burns Harbor Steel Production Shop, ArcelorMittal USA

James E. Bradley
Gregory Gabbert
Russell Mulligan
Garrett P. Flick
David Sena
Tyler T. Preall

Note: The $2,500 prize will be divided equally among the authors.

Third Place:  Quenching and Partitioning of Plate Steel: Thermal Gradients and Microstructure Development During Quenching

Rachel A. Stewart
John G. Speer
Brian G. Thomas
Amy J. Clarke
Emmanuel De Moor

Note: The $1,000 prize will be divided equally among the authors.
# Recipients of Scholarships

## Henry DeWitt Smith Scholarship – 2019

**SPE**  
Eric Anash, Kyushu University, Japan

**SME**  
Marcelo Teixeira, Geo-Engineering, University of Nevada-Reno  
Bijan Peik, Geo-Engineering, University of Nevada-Reno  
Laura Steeves, Geo-Engineering, University of Kentucky

**AIST**  
Ali Asgarian, Materials Science & Engineering, University of Toronto  
Bradley W. Hostetler, Carnegie Mellon University  
Virginia K. Judge, Metallurgical Engineering, Colorado School of Mines  
Eric M. Tenuta, Materials Science, University of Ontario Institute of Technology

**TMS**  
Brady Dowdell, North Carolina State University, Raleigh, NC  
Pranjal Nautiyal, Florida International University, Miami, FL

## Benjamin F. Fairless Scholarship – 2019

**AIST**  
Harland C. Ashby, Mechanical Engineering, Texas A&M  
Jacob A. Meyer, Purdue University  
David R. Salmeron, University of Maryland Eastern Shore, Mechanical Engineering

## John S. Marshall Memorial Scholarships – 2019

Shivan Singh Bhadoria  
Amit Chatterjee  
Rishabh Gurjar

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Indian Institute of Technology (ISM), Dhanbad
The Lewis E. and Elizabeth W. Young Undergraduate Scholarships – 2019

* Selected by SME-WAAIME Pennsylvania-West Section

**West Virginia University** - Mining Engineering
- Toussaint Boulaz
- Andrew Moore
- Eric McCauley
- Thomas Wetzel
- Zoey Carper
- Nathan Tharp

**University of Pittsburgh** - Petroleum Engineering
- Luke Rattay
- Ryan Mowry
- Paul Holmgren
- Kyle Ressler

**University of Kentucky** - Mining Engineering
- Paul Holmgren
- Kyle Ressler

**Colorado School of Mines**
- Miguel Morelia

**South Dakota School of Mines**
- Safiatu Barrie

**New Mexico Tech**
- Mariana Moira
- Elham Rahimi

**SME Coal & Energy Scholarships – 2019**

* Funded by the AIME Howard N. Eavenson Fund

- Daniel Ausherman
- University of Arizona
- Virginia Tech
- Trey Campbell
- University of Utah
- Chase Carroll
- West Virginia University
- Jarom Gleed
- West Virginia University
- Selena Lewis
- University of Utah
- Suraj Kumar Mahto
- University of Utah
- Molly McFarland
- University of Utah
- Alex Norris
- National University of Colombia
- Nikolas Papameletiou
- University of Nevada-Reno
- Chandu Pullooru
- West Virginia University
- Rebecca Ray
- Birsai institute Of Technology
- Pranav Singh
- Sindri
- Carolina Navia Vasquez
- West Virginia University
AIME Honorary Members

Honorary Membership is awarded in appreciation of outstanding service to the Institute or in recognition of distinguished scientific or engineering achievement in fields embracing, broadly speaking, the activities of AIME and its Member Societies.

Active List with Year of Election

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AIME is proud to honor the following people whose membership in the Institute spans a fifty-year period. To all of these people, AIME owes gratitude for their loyalty and appreciation for their faith in its standards. Some have held high office in the AIME ranks and have devoted their time and talents to its continued growth and prestige. They stand to serve as outstanding inspirations for all members.

Class of 1969

Society for Mining, Metallurgy, and Exploration (SME)

- David Abbott
- Murray Aitken
- Bentley Baggett
- William Beck
- Curtis Belden
- David Bennett
- William Blackburn
- Richard Bowen
- James Boyd
- William Brice
- John Callahan
- Christopher Candee
- Stephen Collings
- Bruce Collins
- Charles Cowie
- Thomas Cushman
- Robert Cuttriss
- R Dewey
- John Ellis
- William Everett
- Thomas Faddies
- John Feddock
- William Fincher
- Craig Garrett
- Charles Goehringer
- Thomas Golden
- James Graham
- Michael Greeley
- Ross Grunwald
- David Hackman
- Howard Harlan
- Stuart Havenstrite
- Robin Hendrickson
- James Hewitson
- Philip Howard
- Larry Jaycox
- Allan Johnson
- William Kazel
- Robert Kilborn
- David Kincaid
- Dennis Lapoint
- Kenneth Larsen
- John Lawlor
- Bruce Lindeke
- Fausto Loli
- Jay Mackie
- Charles McLean
- Peter Merritts
- Robert Murray
- David Nicholas
- Peter Nielsen
- Harold Noyes
- Patrick O Hara
- Bhupendra Parekh
- Gregory Patterson
- Alexander Paul
- William Pennell
- Stephen Peters
- Paul Pierce
- John Pollard
- Jeffrey Reid
- Michael Richardson
- Raymond Richardson
- William Rogers
- David Rust
- Richard Saccany
- Randy Sandrik
- Randolph Schneider
- David Shaddrick
- Rohini Sharma
- Nicholas Skorski
- Robert Smith
- William Smith
- Julio Solano Saez
- Matthew Spedding
- Roger Steininger
- David Summers
- Johnnie Taylor
- Charles Tesch
- Pramod Thakur
- Jack Thompson
- Edwin Via
- Robert Wade
- Philip Wadley
- Richard Walters
- Kenneth Wanstrath
- Frederik Warnaars
- David Weiss
- Carl Welch
- David Wells
- Stephen Winkelmann
- Kenneth Woodruff
- Allan Young
Legion of Honor - 50 Year Members (continued)

Association for Iron and Steel Technology (AIST)

Jagdish C. Agarwal  Toshihiko Emi  Louis W. Lherbier  Norman A. Robins
L. James Anderson  C. Thomas Esterly  Claude H.P. Lupis  Mark S. Rodney
Kelso S. Baker  Bernard J. Fedak  Leon A. Luyckx  Norman F. Rodowicz
Shank R. Balajee  Elmer G. Foley  Joseph N. Lynch  Gerald J. Roe
John A. Beatrice  John R. Gibson  Raymond M. Mader  Walter D. Sadowski
Richard B. Bertolo  Carl E. Glaser  Lawrence G. Maloney  Eugene A. Salvadore
William H. Betts  Henry G. Goehring  William R. Materna  S.D. Sanders
David T. Blazevic  Roderick I. L. Guthrie  Raymond J. McGlynn Jr.  Klaus J.
Gary L. Bowman  James F. Hamilton  Alexander McLean  Schwerdtfeger
John R. Buta  Lars J. Hansen  Walter D. Meloy  Samuel H. Seem
John C. Campbell  John G. Harhai  Keith H. Moredock  Herbert D. Sellers Sr.
Richard J. Choulet  Narwani Harman  John L. Mulesa  Sudhir K. Sharma
C. Larry Coe  James S. Harper  John M. Negomir  James C. Simmons
John P. Connolly  Roger Heaton  William J. Nelson  David B. Sharma
Edward C. Cool  John D. Heffernan  Gordon R. Oliver  Surjit Singh
Denis L. Creazzi  Harry O. Hefter  Stephen Palko  Charles E. Slater
Robert Creese  Wallace L. Hick Jr.  Prafulla C. Panigrathy  Ralph M. Smaler
Charles Criss  Lawrence Janowski  K.G. Pedersen  Russell Solomon III
Roy L. Cross  George A. Jedenoff  Robert D. Pehlke  Sigurd M. Sorensen
James F. Cunningham  John E. Jetkiewicz  Ronald J. Petroksi  George R. St. Pierre
Stanley P. Darbut  Behram M. Kapadia  Howard M. Pielet  Joseph L. Stein
William E. Dauksch  Calvin A. Keeney  Raymond L. Polick  Russell E. Swanson
Paul J. Diffenbach  Daniel W. Lavis  K. William Rapp  Brooks E. Weingart
Thomas F. Dohnal  Robert G.H. Lee  Richard L. Reddy  David A. Withrow
James L. Emery  Timothy Lewis  Michel Rigaud

The Minerals, Metals & Materials Society (TMS)

Vincent Ben B. Abratigue  Roderick I. L. Guthrie  Joshua Pelleg
Bruce A. Barth  Tadashi Hasegawa  Douglas H. Polonis
J.A. Blanco  Kozo Ishizaki  Garrett C. Schanck
Peter R. Bridenbaugh  Jerry F. Koon  Frederick J. Schottman
C. Norman Cochran  David Y. Ku  Wallace W. Schulz
Takehiko Egami  William J. Mills  Richard W. Siegel
Lorenzo Ferrari  Robert Minto  William D. Spiegelberg
Anand M. Garde  Lawrence E. Murr  Donald O. Thompson
David B. George  Hiro Nori Nakamura  D. A. Venkatu
Douglas A. Granger  Katherine J. Pearsall  Tadao Watanabe
Legion of Honor - 50 Year Members (continued)

Society of Petroleum Engineers (SPE)

Carmon H. Alexander
Peter A. Behr
Herbert F. Boles
Fritz Boschitsch
Robert N. Bradford
Donald H. Burks
Ernest L. Buttross Jr.
Samuel J. Byington
Benjamin Coca
Joel E. Damron
Allan L. Drewa
James C. Erdle
Thomas G. Farrell
Walter M. Fast
Hal B. Fullerton IV
David W. Garford
J. Michael Gatlin
Thomas E. Gentry
Richard G. Ghiselin
Ted J. Gilbert Sr.
Robert D. Grace
Ernest L. Grebe II
John F. Greenip
Kenneth L. Haack
Kenneth C. Haggart Jr.
Franklin A. Hamisch
Donald J. Hammerlindl
Florencio Hernandez
Robert C. Herr III
Douglas W. Hilchie
Jack C. Hisaw
Fred R. Holasek
Olin R. Holt
James C. Howell
Rex G. Howell
Edward J. Hrkel
Jim Hussey
Fabian Oritsebemigho
Iwere
Alok Jain
Larry Jay Jenkins
Michael D. Keyes
William M. Kincaid
Larry J. Kinler
Jeff Kirkwood
James A. Kishpaugh
Philip J. Kreick
James F. Lea Jr.
Randal Lewis
Roger D. Linder
James E. Lockwood
Lamar E. Loyd
Joe M. Mach
Edmund J. Mainka Jr.
James S. Martin
Larry D. McVay
Robert S. Metcalfe
Larry O. Miller
Nelson N. Molina
Newton R. Monteiro
John L. Morgan
John A. Musselman
Braj Nandan
James C. New
John W. Norris
James P. Noser
Prentice R. Owen
John E. Peterson Jr.
Glenn A. Picquet
Mahmoodur Rahman
Thomas R. Sifferman
Ashok Kumar Singhal
Warner T. Smith
Paul N. Stanton
Jon P. Stephenson
James W. Styler
Philip W. Terry
Archie Thompson Jr.
David W. Tongue
Ruel Toups Jr.
Russell Harold Trimble
Robert N. Tuttle
Hugo Vargas
Eduardo H. Vila
Leonard West
Paul T. West
H. B. Whitehead
Donald L. Whitfill
John D. Wright
Larry G. Wright
AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.

Financial Statements

For the Year Ended December 31, 2019

And

Independent Auditors' Report
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<td></td>
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</tbody>
</table>
INDEPENDENT AUDITORS’ REPORT

Board of Directors
American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc.

We have audited the accompanying financial statements of American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc. which comprise the statement of financial position as of December 31, 2019, and the related statements of activities, functional expenses and cash flows for the year then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.
Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc. as of December 31, 2019, and the changes in its net assets and its cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Report on Summarized Comparative Information

We have previously audited American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc.'s 2018 financial statements, and our report dated April 24, 2019 expressed an unmodified opinion on those audited financial statements. In our opinion, the summarized comparative information presented herein as of and for the year ended December 31, 2018, is consistent, in all material respects, with the audited financial statements from which it has been derived.

Stockman Kast Ryan + Co. LLP

May 13, 2020
# AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.

## STATEMENT OF FINANCIAL POSITION
**DECEMBER 31, 2019 (with comparative totals for 2018)**

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CURRENT ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>$215,492</td>
<td>$144,143</td>
</tr>
<tr>
<td>Inventory</td>
<td>13,599</td>
<td>4,296</td>
</tr>
<tr>
<td>Prepaid expenses and other assets</td>
<td>59,396</td>
<td>47,358</td>
</tr>
<tr>
<td><strong>Total current assets</strong></td>
<td>288,487</td>
<td>195,797</td>
</tr>
<tr>
<td><strong>BENEFICIAL INTEREST IN PERPETUAL TRUST</strong></td>
<td>373,561</td>
<td>332,638</td>
</tr>
<tr>
<td><strong>INVESTMENTS</strong></td>
<td>11,777,138</td>
<td>10,124,832</td>
</tr>
<tr>
<td><strong>PROPERTY AND EQUIPMENT, NET</strong></td>
<td>938</td>
<td>938</td>
</tr>
<tr>
<td><strong>TOTAL ASSETS</strong></td>
<td>$12,440,124</td>
<td>$10,653,267</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LIABILITIES AND NET ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CURRENT LIABILITIES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounts payable and accrued expenses</td>
<td>$102,104</td>
<td>$11,486</td>
</tr>
<tr>
<td>Member society grants</td>
<td>20,000</td>
<td></td>
</tr>
<tr>
<td><strong>Total liabilities</strong></td>
<td>102,104</td>
<td>31,486</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NET ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Without donor restrictions:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designated for common interest grants, member society direct grants, and 150th anniversary</td>
<td>378,026</td>
<td>335,127</td>
</tr>
<tr>
<td>Undesignated</td>
<td>7,610,647</td>
<td>6,479,047</td>
</tr>
<tr>
<td><strong>Total net assets without donor restrictions</strong></td>
<td>7,988,673</td>
<td>6,814,174</td>
</tr>
<tr>
<td>With donor restrictions</td>
<td>4,349,347</td>
<td>3,807,607</td>
</tr>
<tr>
<td><strong>Total net assets</strong></td>
<td>12,338,020</td>
<td>10,621,781</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL LIABILITIES AND NET ASSETS</strong></td>
<td>$12,440,124</td>
<td>$10,653,267</td>
</tr>
</tbody>
</table>

See notes to financial statements
AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.

STATEMENT OF ACTIVITIES
FOR THE YEAR ENDED DECEMBER 31, 2019 (with comparative totals for 2018)

<table>
<thead>
<tr>
<th></th>
<th>Without Donor Restrictions</th>
<th>With Donor Restrictions</th>
<th>Total</th>
<th>2018 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REVENUE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investment income (loss), net</td>
<td>$1,342,798</td>
<td>$615,245</td>
<td>$1,958,043</td>
<td>$(570,095)</td>
</tr>
<tr>
<td>Offshore technology conference fees</td>
<td>284,831</td>
<td></td>
<td>284,831</td>
<td>315,452</td>
</tr>
<tr>
<td>Change in beneficial interest in perpetual trust</td>
<td></td>
<td>40,923</td>
<td>40,923</td>
<td>(47,146)</td>
</tr>
<tr>
<td>Royalties</td>
<td>23,607</td>
<td></td>
<td>23,607</td>
<td>37,587</td>
</tr>
<tr>
<td>Contributions</td>
<td>17,080</td>
<td></td>
<td>17,080</td>
<td>18,197</td>
</tr>
<tr>
<td>Copyrights and other revenue</td>
<td>2,676</td>
<td></td>
<td>2,676</td>
<td>4,174</td>
</tr>
<tr>
<td>Net assets released from restriction</td>
<td>131,508</td>
<td></td>
<td>(131,508)</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1,785,420</td>
<td>541,740</td>
<td>2,327,160</td>
<td>(241,831)</td>
</tr>
</tbody>
</table>

**EXPENSES**

Program services:
- Endowment spending $267,140
- Strategic initiatives $182,477
- Grants $13,103
  Total $462,720

Supporting services:
- General and administrative $148,201
  Total $610,921

CHANGE IN NET ASSETS $1,174,499

**NET ASSETS, Beginning of year** $6,814,174

**NET ASSETS, End of year** $7,988,673

See notes to financial statements
AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.

STATEMENT OF FUNCTIONAL EXPENSES
FOR THE YEAR ENDED DECEMBER 31, 2019 (with comparative totals for 2018)

<table>
<thead>
<tr>
<th>Supporting Services</th>
<th>Program Services</th>
<th>Total Program Services</th>
<th>2018 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endowment Spending</td>
<td>Strategic Initiatives</td>
<td>Grants</td>
<td>Endowment Spending</td>
</tr>
<tr>
<td>Medals, awards and scholarships</td>
<td>$230,097</td>
<td>$48,600</td>
<td>$278,697</td>
</tr>
<tr>
<td>Payroll and employee benefits</td>
<td>26,206</td>
<td>39,759</td>
<td>13,103</td>
</tr>
<tr>
<td>Meetings - external and other</td>
<td>5,403</td>
<td>86,627</td>
<td>92,030</td>
</tr>
<tr>
<td>Audit, legal and professional service</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIME Board meetings and travel</td>
<td>5,434</td>
<td>3,365</td>
<td>8,799</td>
</tr>
<tr>
<td>Supplies, postage, repairs and maintenance</td>
<td>62</td>
<td>62</td>
<td>16,719</td>
</tr>
<tr>
<td>Promotion and advertising</td>
<td>4,064</td>
<td>4,064</td>
<td>4,064</td>
</tr>
<tr>
<td>Insurance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>$267,140</td>
<td>$182,477</td>
<td>$13,103</td>
</tr>
<tr>
<td>PERCENTAGE</td>
<td>44%</td>
<td>30%</td>
<td>2%</td>
</tr>
<tr>
<td>TOTAL - 2018</td>
<td>$274,908</td>
<td>$134,629</td>
<td>$32,261</td>
</tr>
<tr>
<td>PERCENTAGE - 2018</td>
<td>48%</td>
<td>23%</td>
<td>6%</td>
</tr>
</tbody>
</table>

See notes to financial statements.
# AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.

## STATEMENT OF CASH FlOWS
FOR THE YEAR ENDED DECEMBER 31, 2019 (with comparative totals for 2018)

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OPERATING ACTIVITIES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Change in net assets</td>
<td>$1,716,239</td>
<td>$(819,218)</td>
</tr>
<tr>
<td>Adjustments to reconcile change in net assets to net cash provided by (used in) operating activities:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation</td>
<td>469</td>
<td>419</td>
</tr>
<tr>
<td>Realized and unrealized gains and losses on investments</td>
<td>$(1,683,861)</td>
<td>$818,154</td>
</tr>
<tr>
<td>Change in beneficial interest in perpetual trust</td>
<td>$(40,923)</td>
<td>$47,146</td>
</tr>
<tr>
<td>Changes in operating assets and liabilities:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inventory</td>
<td>(9,303)</td>
<td>1,623</td>
</tr>
<tr>
<td>Prepaid expenses and other current assets</td>
<td>(12,038)</td>
<td>3,312</td>
</tr>
<tr>
<td>Accounts payable and accrued expenses</td>
<td>90,618</td>
<td>(15,615)</td>
</tr>
<tr>
<td>Member society grants</td>
<td>(20,000)</td>
<td>(628,393)</td>
</tr>
<tr>
<td>Net cash provided by (used in) operating activities</td>
<td>$41,201</td>
<td>$(592,572)</td>
</tr>
</tbody>
</table>

| **INVESTING ACTIVITIES**       |               |               |
| Proceeds from sales of investments | 1,516,013    | 1,200,444     |
| Purchases of investments        | (1,484,458)   | (745,174)     |
| Acquisitions of property and equipment | (1,407)      |               |
| Net cash provided by investing activities | 30,148        | 455,270       |

| **INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS** | 71,349        | (137,302)     |
| CASH AND CASH EQUIVALENTS, Beginning of year        | 144,143       | 281,445       |
| CASH AND CASH EQUIVALENTS, End of year              | $215,492      | $144,143      |

See notes to financial statements.
1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Nature of Operations — Organized in 1871, the American Institute of Mining, Metallurgical, and Petroleum Engineers, Inc. (AIME) is a professional not-for-profit organization exempt from federal income taxes under Section 501(c)(3) of the Internal Revenue Code and is not considered a private foundation under Section 509(a)(3).

AIME’s mission is to support its member societies. AIME fulfills this mission by:
- Exercising fiscal responsibility
- Distributing funds
- Facilitating interaction with the relevant scientific and engineering communities
- Honoring the legacy and traditions of AIME

AIME’s four member societies are the Society for Mining, Metallurgy & Exploration (SME); The Minerals, Metals & Materials Society (TMS); the Association for Iron & Steel Technology (AIST) and the Society of Petroleum Engineers (SPE). The AIME financial statements do not include the accounts of the four member societies.

The Board of Trustees is made up of an equal number of representatives from each of the member societies.

AIME’s significant revenue sources include conference proceeds and investment income. AIME retains 15% of conference proceeds received, and the remaining 85% is distributed to the member societies.

Basis of Presentation — AIME is required to report information regarding its financial position and activities according to two classes of net assets: net assets without donor restrictions, which represents the expendable resources that are available for operations at management’s discretion; and net assets with donor restriction, which represents resources restricted by donors as to purpose or by the passage of time and resources whose use by AIME is limited by donor-imposed stipulations that neither expire by passage of time nor can be fulfilled or otherwise removed by actions of AIME.

The accompanying financial statements include certain prior-year summarized comparative information in total. Such information does not include sufficient detail to constitute a presentation in conformity with accounting principles generally accepted in the United States of America. Accordingly, such information should be read in conjunction with AIME’s financial statements for the year ended December 31, 2018, from which the summarized information was derived.

Cash and Cash Equivalents — For purposes of the statement of cash flows, AIME considers all highly liquid investments with original maturities of three months or less to be cash equivalents.
Accounts and Grants Receivable — Accounts and grants receivable are stated at the invoice amount. Management provides for probable uncollectible amounts through a provision for bad debts and an adjustment to a valuation allowance based on its assessment of the current status of individual accounts. As of December 31, 2019 and 2018, there were no accounts and grants receivable recorded.

Inventory — Inventory is valued at estimated cost and consists of minor medals and award items, marketing materials, and office supplies.

Investments — Investments in equity securities having a readily determinable fair value and all debt securities and alternative investments are carried at fair value. Investment return includes dividend, interest and other investment income; realized and unrealized gains and losses on investments carried at fair value; and realized gains and losses on other investments.

Property and Equipment — Acquisitions of property and equipment of $1,000 or more are capitalized. Donated equipment is recorded at fair market value at the date of the donation. Purchased equipment is recorded at cost. AIME has property and equipment at a cost of $5,033 with a net book value of $938 and $0 as of December 31, 2019 and 2018, respectively. Depreciation of furniture and equipment is being provided for by the straight-line method over the estimated useful lives of three to seven years.

Member Society Grants — When sufficient funds are available as determined by the Board of Directors, 50% of net income is distributed equally to the member societies, and 20% of net income (capped at $200,000 per year) is allocated to common interest grants (formerly matching grants or collaborative grants). The latter are for overarching programs (programs conducted by two or more member societies that carry out AIME’s purpose) upon approval by the Board of Directors. Beginning in 2014, until AIME’s 150th anniversary in 2021, 50% of the common interest grant allocation will be allocated to fund the 150th anniversary. As of December 7, 2018, the AIME Board voted to eliminate future allocations to Common Interest Grants. As of December 6, 2019, the AIME Board changed the member society grants to be $200,000 per year for the upcoming five years beginning in 2020. Grants are subject to member societies submitting proposals and approval by the AIME Board of Directors.

Revenue Recognition — Contributions received are recorded as net assets without donor restrictions or net assets with donor restrictions depending on the existence or nature of any donor restrictions. When a donor restriction is met, net assets with donor restrictions are reclassified to net assets without donor restrictions and reported in the statement of activities as net assets released from restrictions. Conference fees are recognized as revenue once related services are performed or events are held. Grant revenue is recognized when the grant requirements or terms have been fulfilled. Other revenues are recognized when earned.

Income Taxes — AIME is exempt from federal income taxes under Section 501(c)(3) of the Internal Revenue Code. AIME believes that it does not have any uncertain tax positions that are material to the financial statements.

Use of Estimates — The preparation of financial statements, in conformity with generally accepted accounting principles, requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date
of the financial statements and the reported amounts of revenues and expenses during the
reporting period. Actual results could differ from those estimates.

**Subsequent Events** — AIME has evaluated subsequent events for recognition or disclosure through
the date of the Independent Auditors' Report, which is the date the financial statements were
available for issuance.

2. **LIQUIDITY AND AVAILABILITY**

The following table reflects AIME’s financial assets as of December 31, 2019 and 2018, reduced by
amounts that are not available to meet general expenditures within one year of the statement of
financial position date because of contractual restrictions or internal board designations. Amounts
not available to meet general expenditures within one year include net assets with donor
restrictions and board designated funds that are intended to fund special board initiatives not
considered in the annual operating budget. In the event the need arises to utilize the board-
designated funds for liquidity purposes, the reserves could be drawn upon through board
resolution. Amounts not available to meet general expenditures within one year also include net
assets with donor restrictions.

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>$ 215,492</td>
<td>$ 144,143</td>
</tr>
<tr>
<td>Investments</td>
<td>11,777,138</td>
<td>10,124,832</td>
</tr>
<tr>
<td>Total financial assets</td>
<td>11,992,630</td>
<td>10,268,975</td>
</tr>
<tr>
<td>Less amounts unavailable for general expenditures within one year, due to:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restricted by donors with purpose restrictions</td>
<td>3,542,284</td>
<td>3,041,467</td>
</tr>
<tr>
<td>Restricted by donors in perpetuity</td>
<td>807,063</td>
<td>766,140</td>
</tr>
<tr>
<td>Total amounts unavailable for general expenditures within one year</td>
<td>4,349,347</td>
<td>3,807,607</td>
</tr>
<tr>
<td>Less amounts unavailable to management without Board's approval:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Board designated for 150th anniversary</td>
<td>178,026</td>
<td>204,411</td>
</tr>
<tr>
<td>Board designated for member society direct grants</td>
<td>200,000</td>
<td></td>
</tr>
<tr>
<td>Board designated for common interest grants</td>
<td></td>
<td>130,716</td>
</tr>
<tr>
<td>Total amounts unavailable to management without Board's approval</td>
<td>378,026</td>
<td>335,127</td>
</tr>
<tr>
<td>Total financial assets available to management to meet cash needs for general expenditures within one year</td>
<td>$ 7,265,257</td>
<td>$ 6,126,241</td>
</tr>
</tbody>
</table>

As part of AIME’s liquidity management, it has a policy to structure its financial assets to be
available as its general expenditures, liabilities, and other obligations come due. AIME’s policy to
manage an emergency cash flow need is to evaluate actual monthly expenditures and compare with
amounts forecasted to determine if the liquidation of investments, release of unrestricted
endowments, or other measure should be taken. Per AIME bylaws, each AIME member society is also responsible for its share of the expenses to support AIME’s programs. AIME manages its cash flow for a one-year cycle from the balance sheet date.

3. FUNCTIONAL EXPENSES ALLOCATION METHODS

The financial statements report certain categories of expenses that are attributable to one or more program or supporting services of AIME. Therefore, expenses require allocation on a reasonable basis that is consistently applied. The expenses that are allocated include staff time allocated as 60% program services and 40% general and administrative. Board meeting expenses are allocated as 25% program services and 75% general and administrative.

4. CONCENTRATIONS OF RISK

AIME maintains its cash and cash equivalents in bank deposit accounts which, at times, exceed federally insured limits. AIME has not experienced any losses in such accounts.

AIME has investments in exchange traded funds, common stocks, mutual funds, real estate investment trusts, fixed income securities and private equity limited partnerships which it has placed with an investment management company. AIME invests in investment securities which are exposed to various risks such as interest rate, market and credit risks. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investments will occur in the near term and that such changes could materially affect the recorded amount of investments in AIME’s financial statements. AIME's private equity limited partnership investments are recorded at their net asset value as determined by the funds (see Note 6). Actual fair value of the investments upon liquidation could vary significantly from the current estimated fair value.

5. BENEFICIAL INTEREST IN PERPETUAL TRUST

AIME is the sole beneficiary of the Howard N. Eavenson Trust (the Trust), a trust whose principal is to be held in perpetuity. Assets of the Trust are invested and administered by a trustee and distributions are made to AIME. Assets of the Trust consist of cash and cash equivalents and mutual funds. AIME records its interest in the Trust at the fair value of the assets held by the Trust. Fair value of the underlying assets is determined using quoted market prices and pricing services. As of December 31, 2019 and 2018, the beneficial interest in the Trust was $373,561 and $332,638, respectively. AIME received $17,080 and $18,197 in distributions from the Trust during the years ended December 31, 2019 and 2018, respectively.

6. INVESTMENTS AND FAIR VALUE MEASUREMENTS

AIME is required to use a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements).
The three levels of the fair value hierarchy are described below:

Level 1: Unadjusted quoted prices in active markets for identical assets or liabilities that AIME has the ability to access.

Level 2: Prices determined using significant other observable inputs. Inputs to the valuation methodology include:

- Quoted prices for similar assets or liabilities in active markets;
- Quoted prices for identical or similar assets or liabilities in inactive markets;
- Inputs other than quoted prices that are observable for the asset or liability;
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.

Level 3: Prices determined using significant unobservable inputs.

The investment’s fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs. The classifications (Level 1, 2 and 3) are intended to reflect the observability of inputs used in the valuation of investments and are not necessarily an indication of risk or liquidity.

Following is a description of the valuation methodologies used for instruments measured at fair value on a recurring basis and recognized in the accompanying statements of financial position, as well as the general classification of such instruments pursuant to the valuation hierarchy.

*Common Stocks, Mutual Funds, Exchange Traded Funds, Preferred Securities, and Real Estate Investment Trusts* — Fair value is determined principally through quoted market prices in active markets.

*Corporate Bonds* — Price is determined by the asset custodian based on quoted prices for identical or similar assets in active markets.

*Private Equity Limited Partnerships* — Valued at net asset value of the respective investments as a practical expedient to estimate fair value. This practical expedient would not be used if it is determined to be probable that the investment will be sold for an amount different from the reported net asset value. See below for further information on these investments measured using the net asset value practical expedient.

The preceding methods may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, although AIME believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.
The following tables set forth by level, within the fair value hierarchy, AIME’s assets measured on a recurring basis stated at fair value as of December 31:

<table>
<thead>
<tr>
<th></th>
<th>Quoted Prices in Active Markets for Identical Assets (Level 1)</th>
<th>Significant Other Observable Inputs (Level 2)</th>
<th>Significant Unobservable Inputs (Level 3)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2019:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corporate bonds</td>
<td>$ 4,171,219</td>
<td></td>
<td></td>
<td>$ 4,410,603</td>
</tr>
<tr>
<td>Common stocks</td>
<td>$ 4,171,219</td>
<td></td>
<td></td>
<td>$ 4,171,219</td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>308,147</td>
<td></td>
<td></td>
<td>308,147</td>
</tr>
<tr>
<td>Mutual funds</td>
<td>13,063</td>
<td></td>
<td></td>
<td>13,063</td>
</tr>
<tr>
<td>Total</td>
<td>6,887,714</td>
<td>4,410,603</td>
<td>$</td>
<td>11,298,317</td>
</tr>
<tr>
<td>Beneficial interest in trust</td>
<td>373,561</td>
<td></td>
<td></td>
<td>373,561</td>
</tr>
<tr>
<td>Total in fair value hierarchy</td>
<td>$ 6,887,714</td>
<td>$ 4,784,164</td>
<td>$</td>
<td>11,671,878</td>
</tr>
<tr>
<td>Investments measured at net asset value</td>
<td></td>
<td></td>
<td></td>
<td>478,821</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>$ 12,150,699</td>
</tr>
<tr>
<td><strong>2018:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common stocks</td>
<td>$ 3,393,920</td>
<td></td>
<td></td>
<td>$ 3,393,920</td>
</tr>
<tr>
<td>Corporate bonds</td>
<td>$ 3,358,562</td>
<td></td>
<td></td>
<td>3,358,562</td>
</tr>
<tr>
<td>Exchange traded funds</td>
<td>2,484,957</td>
<td></td>
<td></td>
<td>2,484,957</td>
</tr>
<tr>
<td>Cash and cash equivalents</td>
<td>250,784</td>
<td></td>
<td></td>
<td>250,784</td>
</tr>
<tr>
<td>Mutual funds</td>
<td>51,059</td>
<td></td>
<td></td>
<td>51,059</td>
</tr>
<tr>
<td>Total</td>
<td>6,180,720</td>
<td>3,358,562</td>
<td>$</td>
<td>9,539,282</td>
</tr>
<tr>
<td>Beneficial interest in trust</td>
<td>332,638</td>
<td></td>
<td></td>
<td>332,638</td>
</tr>
<tr>
<td>Total in fair value hierarchy</td>
<td>$ 6,180,720</td>
<td>$ 3,691,200</td>
<td>$</td>
<td>9,871,920</td>
</tr>
<tr>
<td>Investments measured at net asset value</td>
<td></td>
<td></td>
<td></td>
<td>585,550</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>$ 10,457,470</td>
</tr>
</tbody>
</table>

The availability of observable market data is monitored to assess the appropriate classification of financial instruments within the fair value hierarchy. Changes in economic conditions or valuation techniques may require the transfer of financial instruments from one fair value level to another.
Investments Measured at Net Asset Value — The following summarizes liquidity considerations for investments measured at fair value that calculate net asset value per share as a practical expedient at December 31, 2019:

<table>
<thead>
<tr>
<th>Investments</th>
<th>Fair Value</th>
<th>Unfunded Commitments</th>
<th>Redemption Frequency</th>
<th>Redemption Period</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Equity Offshore Fund V Limited</td>
<td>$3,449</td>
<td>$49,995</td>
<td>*</td>
<td>N/A</td>
<td>15 years with three 1-year options beginning in 2005</td>
</tr>
<tr>
<td>Private Equity Offshore Fund VI Limited</td>
<td>107,196</td>
<td>38,029</td>
<td>*</td>
<td>N/A</td>
<td>15 years with three 1-year options beginning in 2007</td>
</tr>
<tr>
<td>Private Equity Offshore Fund VII Limited</td>
<td>115,367</td>
<td>73,708</td>
<td>*</td>
<td>N/A</td>
<td>15 years with three 1-year options beginning in 2008</td>
</tr>
<tr>
<td>Private Equity Offshore Fund VIII Limited</td>
<td>87,910</td>
<td>15,168</td>
<td>*</td>
<td>N/A</td>
<td>15 years with three 1-year options beginning in 2011</td>
</tr>
<tr>
<td>Private Equity Offshore Fund IX Limited</td>
<td>164,899</td>
<td>25,423</td>
<td>*</td>
<td>N/A</td>
<td>15 years with three 1-year options beginning in 2012</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$478,821</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Shareholders do not have the right to redeem any shares without the consent of the fund manager.

**Hirtle Callaghan Private Equity Offshore Fund V, VI, VII, and VIII Limited (the Funds):** The Funds are exempt companies established under the laws of the Cayman Islands. The objective of the Funds is to realize long-term total returns by investing in a diversified group of pooled investment vehicles, which will, in turn, invest in different private equity-related disciplines, that include, but are not limited to, venture capital, growth capital, buyouts, debt, real estate, mining, energy and infrastructure.

**Hirtle Callaghan Private Equity Offshore Fund IX Limited (the Fund):** The Fund is an exempt company established under the laws of the Cayman Islands. The objective of the Fund is to realize long-term total returns by investing in a broad range of private equity funds, which will, in turn, invest in different private equity-related disciplines, that include, but are not limited to, venture capital, growth capital, buyouts, debt, real estate, power, energy and infrastructure.
Investment income (loss) consists of the following for the years ended December 31:

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net realized and unrealized gains (losses)</td>
<td>$1,683,861</td>
<td>$(818,154)</td>
</tr>
<tr>
<td>Dividends and interest</td>
<td>321,388</td>
<td>307,554</td>
</tr>
<tr>
<td>Other investment income</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>Total</td>
<td>2,005,249</td>
<td>(510,555)</td>
</tr>
<tr>
<td>Investment advisory fees</td>
<td>(47,206)</td>
<td>(59,540)</td>
</tr>
<tr>
<td>Total investment income (loss), net</td>
<td>$1,958,043</td>
<td>$(570,095)</td>
</tr>
</tbody>
</table>

7. TRANSACTIONS WITH AFFILIATES

During the year ended December 31, 2019, AIME remitted $1,898,400 to the member societies. Of this amount, $1,620,327 were funds received from the Offshore Technology Conference and passed on to the member societies, $144,163 were reimbursements to SME for payroll and employee benefits expenses, $33,497 were expenses paid for strategic initiatives, and the remaining $100,413 was for awards and scholarships.

During the year ended December 31, 2018, AIME remitted $4,055,656 to the member societies. Of this amount, $1,138,398 were funds received from the Offshore Technology Conference and passed on to the member societies, $105,051 were reimbursements to SME for payroll and employee benefits expenses, $2,677,086 were 2017 member society distributions paid in 2018, $37,100 were expenses paid for strategic initiatives, $22,825 for endowment fund income distributions, and the remaining $75,196 was for awards and scholarships. As of December 31, 2018, AIME had a payable to the member societies in the amount of $20,000.

8. BOARD DESIGNATED NET ASSETS

The Board of Directors has designated net assets for the following purposes at December 31:

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>150th anniversary</td>
<td>$178,026</td>
<td>$204,411</td>
</tr>
<tr>
<td>Member society direct grants</td>
<td>200,000</td>
<td></td>
</tr>
<tr>
<td>Common interest grants</td>
<td></td>
<td>130,716</td>
</tr>
<tr>
<td>Total</td>
<td>$378,026</td>
<td>$335,127</td>
</tr>
</tbody>
</table>
9. **NET ASSETS WITH DONOR RESTRICTIONS**

Net assets with donor restrictions have been restricted by donors for special projects to be spent as follows at December 31:

<table>
<thead>
<tr>
<th>Restricted as to purpose:</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medals and awards</td>
<td>$1,402,471</td>
<td>$1,206,227</td>
</tr>
<tr>
<td>Specific use</td>
<td>1,088,785</td>
<td>946,866</td>
</tr>
<tr>
<td>Scholarships</td>
<td>980,386</td>
<td>853,991</td>
</tr>
<tr>
<td>Publishing articles, papers and awards</td>
<td>70,642</td>
<td>34,383</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,542,284</strong></td>
<td><strong>3,041,467</strong></td>
</tr>
</tbody>
</table>

Endowments subject to AIME’s spending policy and appropriation

<table>
<thead>
<tr>
<th>Beneficial interest in irrevocable trusts not subject to AIME’s spending policy and appropriation</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>433,502</td>
<td>433,502</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>807,063</strong></td>
<td><strong>766,140</strong></td>
</tr>
</tbody>
</table>

Total net assets with donor restrictions

<table>
<thead>
<tr>
<th>Total net assets with donor restrictions</th>
<th>2019</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$4,349,347</td>
<td>$3,807,607</td>
</tr>
</tbody>
</table>

10. **ENDOWMENT**

AIME’s endowment consists of 21 separate funds with donor-restrictions where only the income may be spent for the charitable purposes stipulated in the related trust documents. As required by accounting principles generally accepted in the United States of America (GAAP), net assets associated with endowment funds are classified and reported based on the existence or absence of donor-imposed restrictions.

The State of New York and the State of Colorado have adopted the *Uniform Prudent Management of Institutional Funds Act* (UPMIFA or the Act). The Act provides statutory guidance for management, investment and expenditures of endowment funds held by not-for-profit organizations. AIME has interpreted UPMIFA as requiring the preservation of the fair value of the original gift as of the gift date of the donor-restricted endowment funds absent explicit donor stipulations to the contrary. As a result of this interpretation, AIME classifies as net assets with donor restrictions (a) the original value of gifts donated to the permanent endowment, and (b) accumulations to the permanent endowment made in accordance with the direction of the applicable donor gift instrument at the time the accumulation is added to the fund. In accordance with UPMIFA, AIME considers the following factors in making a determination to appropriate or accumulate donor-restricted endowment funds:

1. The duration and preservation of the endowment fund
2. The purposes of the institution and the endowment fund
3. General economic conditions
4. The possible effect of inflation and deflation
5. The expected total return from investment income and appreciation or depreciation of investments
6. Other resources of AIME; and
7. The investment policies of AIME

Changes in endowment net assets for the year ended December 31, 2019 are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Without Donor Restrictions</th>
<th>With Donor Restrictions</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endowment net assets, January 1, 2019</td>
<td>$ 162,232</td>
<td>$ 3,109,961</td>
<td>$ 3,272,193</td>
</tr>
<tr>
<td>Investment return, net</td>
<td>30,322</td>
<td>536,828</td>
<td>567,150</td>
</tr>
<tr>
<td>Appropriations for expenditures</td>
<td>(1,061)</td>
<td>(128,431)</td>
<td>(129,492)</td>
</tr>
<tr>
<td>Endowments net assets, December 31, 2019</td>
<td>$ 191,493</td>
<td>$ 3,518,358</td>
<td>$ 3,709,851</td>
</tr>
</tbody>
</table>

Changes in endowment net assets for the year ended December 31, 2018 are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Without Donor Restrictions</th>
<th>With Donor Restrictions</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endowment net assets, January 1, 2018</td>
<td>$ 170,421</td>
<td>$ 3,361,327</td>
<td>$ 3,531,748</td>
</tr>
<tr>
<td>Investment return, net</td>
<td>(6,792)</td>
<td>(120,259)</td>
<td>(127,051)</td>
</tr>
<tr>
<td>Appropriations for expenditures</td>
<td>(1,397)</td>
<td>(131,107)</td>
<td>(132,504)</td>
</tr>
<tr>
<td>Endowments net assets, December 31, 2018</td>
<td>$ 162,232</td>
<td>$ 3,109,961</td>
<td>$ 3,272,193</td>
</tr>
</tbody>
</table>

From time to time, the fair value of assets associated with individual donor-restricted endowment funds may fall below the level AIME is required to retain as a fund of perpetual duration pursuant to donor stipulation or UPMIFA. In accordance with GAAP, deficiencies of this nature are reported in net assets without donor restrictions. There were no such deficiencies as of December 31, 2019 and 2018.

Endowment funds are managed by an investment firm according to the Trustees’ investment policy, which calls for maximum total return with acceptable risk. The Trustees’ spending policy for endowment funds is incorporated in its operating budget policy.

To satisfy its long-term rate of return objectives, AIME relies on a total return strategy in which investment returns are achieved through both current yield (investment income such as dividends and interest) and capital appreciation or depreciation (both realized and unrealized). AIME targets a diversified asset allocation that places a greater emphasis on equity-based investments to achieve its long-term return objectives within prudent risk constraints. Equity-based investments include large-cap, small-cap and international equities. AIME also uses fixed income securities and alternative investments to achieve its objectives.
11. **SUBSEQUENT EVENTS**

On January 30, 2020, the World Health Organization (WHO) announced a global health emergency because of a new strain of coronavirus originating in Wuhan, China (the COVID-19 outbreak) and the risks to the international community as the virus spreads globally beyond its point of origin. In March 2020, the WHO classified the COVID-19 outbreak as a pandemic, based on the rapid increase in exposure globally.

The full impact of the COVID-19 outbreak continues to evolve as of the date of this report. As such, it is uncertain as to the full magnitude that the pandemic will have on AIME’s financial condition, liquidity, and future results of operations. Management is actively monitoring the global situation on its financial condition, liquidity, operations, suppliers, industry, and workforce. Given the daily evolution of the COVID-19 outbreak and the global responses to curb its spread, AIME is not able to estimate the effects of the COVID-19 outbreak on its results of operations, financial condition or liquidity for fiscal year 2020.

Management has taken actions to reduce future anticipated costs and raise funds to sustain its operations for the remainder of fiscal year 2020. In February 2020, AIME sold several oil and gas interests in properties resulting in proceeds of approximately $500,000. AIME has also applied for the Small Business Administration loan offered in connection to The Coronavirus Aid, Relief, and Economic Security (CARES) Act and intends to apply for a line of credit with a bank for additional funds as needed.
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