2024 SME/AIME Awards Program
2024 SME/AIME AWARDS

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SME/AIME CHARLES F. RAND MEMORIAL GOLD MEDAL

2024 Recipient
The 2024 recipient of the SME/AIME Charles F. Rand Memorial Gold Medal is Jimmy A. Brock. Jimmy receives the Rand Award “In recognition of his extraordinary achievements as a coal industry leader, his commitment to mine health and safety, and his vision to position coal in the energy transition.”

History
The Charles F. Rand Memorial Gold Medal Award, established in 1932, recognizes distinguished achievement in mining administration, regarding mining in its broad sense to include metallurgy and petroleum.

Past Recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
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<tr>
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<td>Neil B. Prenn</td>
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<td>2021</td>
<td>Khaled Al-Buraik</td>
</tr>
<tr>
<td>2020</td>
<td>John M. Marek</td>
</tr>
<tr>
<td>2019</td>
<td>Hugh E. Harvey, Jr.</td>
</tr>
<tr>
<td>2018</td>
<td>Donald L. Paul</td>
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<tr>
<td>2017</td>
<td>Karnel Bennaceur</td>
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<td>2016</td>
<td>Alexander J. Davidson</td>
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<td>Scott D. Sheffield</td>
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<td>Gary J. Goldberg</td>
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<td>2013</td>
<td>Nasir K. Al-Naimi</td>
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<td>Harry M. (Red) Conger</td>
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<td>David A. T. Donohue</td>
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<td>J. Brett Harvey</td>
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<td>Amin H. Nasser</td>
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<td>Andrew Gould</td>
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<td>Sara Akrar</td>
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<td>Arthur A. Schweitzer</td>
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<td>Claudio DeScalzi</td>
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<td>Jack Thompson</td>
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<td>Guy G. Dufresne</td>
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<td>C. Kevin McArthur</td>
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<td>1998</td>
<td>Tom O’Neil</td>
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SME/AIME MINERAL ECONOMICS AWARD

2024 Recipient
The 2024 recipient of the SME/AIME Mineral Economics Award is Thomas F. Brady. Thomas receives the Mineral Economics Award “For his many contributions in the field of applied mineral economics, particularly project analysis, commodity forecasting, and risk assessment.”

History
The Mineral Economics Award was established in 1965 and is given in recognition of distinguished contributions in the advancement of mineral economics.

Past Recipients

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<td>Keith N. Spence</td>
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<td>Michael D. Doggett</td>
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<td>2018</td>
<td>Trevor R. Ellis</td>
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<td>2017</td>
<td>Ronald L. Lewis</td>
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<td>David R. Hammond</td>
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<td>Graham A. Davis</td>
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<td>2013</td>
<td>Roussos Dimitrakopoulos</td>
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<td>2012</td>
<td>Franklin Stermole</td>
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<td>Phillip Crowson</td>
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<td>Roderick Eggert</td>
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<td>D. Ronald Harrell</td>
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<td>Jean-Michel M. Renu</td>
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<td>William P. Imrie</td>
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<td>Menelaos D. Hassiellas</td>
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</table>

This is a list of honorees through the past 30 years. To view full list please visit www.aimehq.org/what-we-do/awards
SME/AIME MINERAL INDUSTRY EDUCATION AWARD

2024 Recipient
The 2024 recipient of the SME/AIME Mineral Industry Education Award is Samuel Frimpong. Samuel receives the Mineral Industry Education Award “For his outstanding contributions in graduate and undergraduate education, research initiatives in mining and minerals engineering, and his stellar contributions in industry professional development around the globe.”

History
The Mineral Industry Education Award was established in 1950 and is given for distinguished contributions to the advancement of mineral industry education.

Past Recipients
- J. Richard Kyle (2023)
- James L. Hendrix (2022)
- Erik C. Westman (2021)
- Ramana G. Reddy (2020)
- Manoj K. Mohanty (2019)
- Rick Honaker (2018)
- Hugh B. Miller (2017)
- Courtney A. Young (2016)
- Jon J. Kellar (2015)
- Spencer Rowe Titisy (2014)
- Not given (2013)
- Sukumar Bandopadhyay (2012)
- Christopher J. Bise (2011)
- Clayton V. Deutsch (2010)
- Mary M. Poulton (2009)
- Michael Karmis (2008)
- Ponisseri Somasundaran (2006)
- John Sturgul (2005)
- Larry G. Twidwell (2001)
- Kenneth N. Han (2000)
- Raja V. Ramani (1999)
- Jan D. Miller (1997)
- Lyman L. Handy (1996)
- Richard C. Bradt (1994)
- Ernest Peters (1993)
- Frank F. Aplan (1992)
- Donald W. Gentry (1991)

AIME HONORARY MEMBER AWARD

2024 SME Recipients
The 2024 SME recipients of the AIME Honorary Member Award are Ihor A. Kunasz and Thomas J. O’Neil. Ihor A. Kunasz receives this in recognition for his unwavering commitment to excellence in all aspects of the mining industry, strong leadership as SME President and promotion of SME values to the international mining community.

Thomas J. O’Neil receives this in recognition for his distinguished career and commitment to expanding educational opportunities in mining and geological engineering programs, his leadership as an SME President, and as a Governor of the National Mining Hall of Fame.

History
AIME Honorary Membership is one of the highest honors that the Institute can bestow on an individual. It is awarded in appreciation of outstanding service to the Institute or in recognition of distinguished scientific or engineering achievement in the fields embracing the activities of AIME. The first conferral of Honorary Membership occurred in 1872, one year after the founding of AIME and its Member Societies.

Past Recipients
- C. Dale Elifrits (2023)
- John G. Mansanti (2023)
- Mary B. Korpi (2022)
- Barbara J. Arnold (2021)
- Timothy D. Arnold (2021)
- J. Steven Gardner (2021)
- Mary M. Poulton (2021)
- Jessica E. Kogel (2020)
- Drew A. Meyer (2018)
- Hugh Miller (2017)
- Art Schweizer (2017)
- John N. Murphy (2016)
- James R. Arnold (2016)
- Ta M. Li (2015)
- Haydn H. Murray (2014)
- Nikhil C. Trivedi (2013)
- George Luxbacher (2012)
- Barbara A. Filas (2011)
- Michael Karmis (2010)
- Raja V. Ramani (2010)
- Maurice C. Fuerstenau (2009)
- Milton E. Wadsworth (2009)
- Robert C. Freas (2008)
- Robert E. Murray (2007)
- Roshan Boman Bhatu (2006)
- Donald W. Gentry (2000)

This is a list of honorees through the past 30 years. To view full list please visit www.aimehq.org/what-we-do/awards
SME/AIME FRANK F. APLAN AWARD

2024 Recipient
The 2024 recipient of the SME/AIME Frank F. Aplan Award is Barry Wills.
Barry Wills receives the Aplan Award “For his extraordinary contributions to the art and practice of mineral engineering over his professional lifetime.”

History
The Frank F. Aplan Award was established in 1989 and recognizes engineering or scientific contributions that further the understanding of the technology of coal and/or mineral processing. Eligible areas of recognition include agglomeration, classification, comminution, electrical and magnetic separation, flocculation and sedimentation, froth flotation, and other related processing operations.

Past Recipients

<table>
<thead>
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<th>Year</th>
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<td>Philip Thompson</td>
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<td>Hsin-Hsiung Huang</td>
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<td>2021</td>
<td>Nikhil C. Trivedi</td>
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<td>2020</td>
<td>Edwin H. Bentzen III</td>
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<tr>
<td>2019</td>
<td>Jaisen N. Kohmuench</td>
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<td>2018</td>
<td>Chen-Luh Lin</td>
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<td>2017</td>
<td>David G. Osborne</td>
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<td>2016</td>
<td>Robert C. Bratton</td>
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<td>2015</td>
<td>Michael J. Mankosa</td>
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<td>Barbara J. Arnold</td>
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<td>2011</td>
<td>Peter J. Bethell</td>
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<td>2010</td>
<td>Bhumendra K. Parekh</td>
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<td>2009</td>
<td>Courtney A. Young</td>
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<td>Rick Q. Horaker</td>
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<td>2007</td>
<td>Gerald H. Luttrell</td>
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<td>2006</td>
<td>Subhash Chander</td>
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<td>2005</td>
<td>Dr. D. R. Nagaraj</td>
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<td>2004</td>
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<td>Jan D. Miller</td>
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<td>S. Komar Kawatra</td>
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<td>1999</td>
<td>Maurice C. Fuerstenau</td>
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<td>1998</td>
<td>Richard Hogg</td>
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<td>1997</td>
<td>Brij M. Moudgil</td>
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<td>1996</td>
<td>Klaus Schoenert</td>
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<td>1995</td>
<td>John A. Herbst</td>
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<td>1994</td>
<td>Albert W. Deurbrouck</td>
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<td>1993</td>
<td>Parkash C. Kapur</td>
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<td>1992</td>
<td>Ponisseril Somasundaran</td>
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<td>1991</td>
<td>Thomas P. Meloy</td>
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<td>1990</td>
<td>Douglas W. Fuerstenau</td>
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<td>1989</td>
<td>Frank F. Aplan</td>
</tr>
</tbody>
</table>

SME/AIME ERSKINE RAMSAY MEDAL AWARD

2024 Recipient
The 2024 recipient of the SME/AIME Erskine Ramsay Medal Award is Michael A. Trevits.
Michael receives the Ramsay Medal “For his outstanding advancement, innovation, and dedication to the mining industry.”

History
The Erskine Ramsay Medal Award was established in 1948 to recognize distinguished achievements in coal mining, including bituminous coal and anthracite.

Past Recipients - SME Member Recipients

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<td>Thomas A. Gray</td>
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<td>2022</td>
<td>Madan M. Singh</td>
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<td>2021</td>
<td>Frank Calandra Jr.</td>
</tr>
<tr>
<td>2020</td>
<td>Keith A. Hasladd</td>
</tr>
<tr>
<td>2019</td>
<td>Sukumar Bandopadhyay</td>
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<td>2018</td>
<td>J. Steven Gardner</td>
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<td>2017</td>
<td>Vladislav Kecicjevic</td>
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<td>2016</td>
<td>John N. Murphy</td>
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<td>2015</td>
<td>Wen H. Su</td>
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<td>Christopher Mark</td>
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<td>Michael Karmis</td>
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<td>Lewis V. Wade</td>
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<td>Garold R. Spindler</td>
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<td>Thomas V. Falkie</td>
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</table>

This is a list of honorees through the past 30 years. To view full list please visit www.aimehq.org/what-we-do/awards
SME/AIME HAL WILLIAMS HARDINGE AWARD

2024 Recipient
The 2024 recipient of the SME/AIME Hal Williams Hardinge Award is Edward F. McCarthy. Edward F. McCarthy receives the award “For recognition of his significant contributions to the global industrial minerals community and technical societies, both as an outstanding scientist and as a passionate spokesman and educator.”

History
The Hal Williams Hardinge Award was established in 1958 to recognize outstanding achievement in the field of industrial minerals.

Past Recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
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<td>Bowen Li</td>
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<td>2021</td>
<td>Srinivas Veeramasuneni</td>
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<td>2020</td>
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<td>2019</td>
<td>Jessica Elzea Kogel</td>
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<td>Immo H. Redeker</td>
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IVAN B. RAHN EDUCATION AWARD

2024 Recipient
The 2024 recipient of the Ivan B. Rahn Education Award is Rick Honaker.

Rick Honaker received the Ivan B. Rahn Education Award “For his dedication to the betterment of the mining and minerals engineering education, and his devotion to the profession.”

History
The Ivan B. Rahn Education Award, established in 1995, recognizes distinguished contributions to the educational activities within SME and is open to all SME members who have shown long-term interest in and have significantly contributed to SME activities relating to ABET, student affairs, continuing education, professional registration, and/or the Council of Education (not necessarily an educator themselves).

Past Recipients

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<td>Jeffrey R. Keaton</td>
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<td>Leigh W. Freeman</td>
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<td>Nikhil C. Trivedi</td>
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<td>Bhupendra K. Parekh</td>
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<td>R. Larry Grayson</td>
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<td>Christopher J. Bise</td>
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<td>Eileen Ashworth</td>
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<td>R. R. “Ray” Beebe</td>
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<td>Lee W. Saperstein</td>
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<td>1996</td>
<td>Ivan B. Rahn</td>
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</table>
JOHN FRITZ MEDAL AWARD

2023 Recipient
The 2023 recipient of the John Fritz Medal Award is Asad M. Madni.

Asad M. Madni received the John Fritz Medal Award “For seminal and pioneering contributions to the development and commercialization of innovative sensing and systems technologies, distinguished research leadership, and service to the nation.”

History
The John Fritz Medal is presented each year for scientific or industrial achievement in any field of pure or applied science. It was established in 1902 as a memorial to the great engineer whose name it bears.

Past Recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
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<tbody>
<tr>
<td>2023</td>
<td>Asad M. Madni</td>
</tr>
<tr>
<td>2021</td>
<td>Elon Musk</td>
</tr>
<tr>
<td>2018</td>
<td>Anne S. Kiremidjian, Ph.D.</td>
</tr>
<tr>
<td>2016</td>
<td>H. Vincent Poor, Ph.D., NAE</td>
</tr>
<tr>
<td>2015</td>
<td>Jon D. Magnusson, P.E.</td>
</tr>
<tr>
<td>2014</td>
<td>Julia Weertman, D.Sc.</td>
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<tr>
<td></td>
<td>Gregory N. Stephanopoulos, Ph.D.</td>
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<td></td>
<td>Leslie E. Robertson</td>
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<tr>
<td>2011</td>
<td>Andrew J. Viterbi</td>
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<td>2010</td>
<td>Gerald J. Posakony</td>
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<td>2009</td>
<td>Yvonne Claays Brill</td>
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<td>2008</td>
<td>Kristina M. Johnson</td>
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<td>2007</td>
<td>Galvam Salvendy</td>
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<td>George J. Tarnaro</td>
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<td>2004</td>
<td>John A. Swanson</td>
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<td>2003</td>
<td>Robert. S. Langer</td>
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<td>2002</td>
<td>Daniel S. Goldin</td>
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<td>2001</td>
<td>Paul C. W. Chu</td>
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<td>2000</td>
<td>John W. Fisher</td>
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<td>George H. Heilmeier</td>
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<td>Ivan A. Getting</td>
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<td>1997</td>
<td>Arthur E. Humphrey</td>
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<td>Gordon E. Moore</td>
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<td>Serge Gratch</td>
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<td>1991</td>
<td>Hunter Rouse</td>
</tr>
</tbody>
</table>

ROBERT E. MURRAY INNOVATION AWARD

2023 Recipient
The 2023 recipient of the Robert E. Murray Innovation Award is CONSOL Energy Inc.

CONSOL Energy Inc. receives the Robert E. Murray Innovation Award “Amidst the global energy transition, CONSOL Energy continues to be a leader in pioneering coal research as exemplified by its multi-faceted initiative KEEPING COAL RELEVANT.”

History
The Robert E. Murray Innovation Award was established in 2017 to recognize individuals or organizations who advance the mining industry through the implementation of technical innovation, changing the mining industry through inclusion or adaptation of cutting-edge technologies and innovative processes.

Past Recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Recipient</th>
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</thead>
<tbody>
<tr>
<td>2022</td>
<td>Hecla Mining Company</td>
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<tr>
<td>2021</td>
<td>Stratalis Consulting</td>
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<tr>
<td>2020</td>
<td>James D. Humphrey</td>
</tr>
<tr>
<td>2019</td>
<td>Innovative Wireless Technologies</td>
</tr>
<tr>
<td>2018</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
</tbody>
</table>
SME/AIME THE ROBERT EARLL MCCONNELL AWARD

2024 Recipient
The 2024 recipient of the SME/AIME Robert Earll McConnell Award is Denise C. Johnson. Denise receives the Robert Earll McConnell Award “In recognition of her trail blazing spirit in the advancement of technology and improved sustainability of mine operations, and her inspirational leadership to advance women in mining and manufacturing careers.”

History
The Robert Earll McConnell Award was established in 1968 and recognizes significant contributions that tend to advance a nation’s standard of living or replenish its natural resource base. Such significant contributions may be represented by discovery of a major source of mineral supply, by development of an engineering process to extend present minerals supplies, or outstanding engineering contributions that, in other ways, enhance the standard of living.

Past Recipients

Mary M. Poulton (2022)
Carlos Lira-Galeana (2021)
Hamdi A. Tchelepi (2020)
Ahmed S. Abou-Sayed (2019)
Ali Ghalambor (2018)
Nikhil C. Trivedi (2018)
Charles R. Williams II (2017)
Yuri F. Makogon (2016)
David B. George (2015)
Not given (2014)
Theodore M. Strett (2013)
Larry Watters (2013)
Joseph Iannicelli (2012)
Norman R. Wapinski (2012)
Ben W. Ebenhack (2011)
Diran Apelian (2010)
James J. Metcalf (2009)
J. Steven Whisler (2008)
Don J. Glenister (2006)
Not given (2005)
L. Kent Thomas (2002)
Franklin M. Orr, Jr. (2001)
J. David Lowell (2000)
Robin J. Hickson (1999)
R. Lyn Arscott (1998)
Richard L. Lawson (1997)
John T. Williamson (1996)
Ronald L. Geer (1995)
Frank J. Schuh (1994)
T. S. Ary (1993)
Michael Korchynsky (1992)
Not given (1991)

This is a list of honorees through the past 30 years. To view full list please visit www.aimehq.org/what-we-do/awards

SME/AIME ROBERT H. RICHARDS AWARD

2024 Recipient
The 2024 recipient of the SME/AIME Robert H. Richards Award is Richard H. Johnson. Richard receives the SME/AIME Robert H. Richards Award “For a lifetime of making projects happen.”

History
The Robert H. Richards Award, established in 1948, is given to recognize achievement in any form, which unmistakably furthers the art of mineral beneficiation in any of its branches.

Past Recipients

Stephen Morrell (2023)
Kathleen A. Altman (2022)
Michael J. Mankosa (2021)
James L. Vanderbeek (2020)
Jaime E. Sepulveda (2019)
Hans Von Michaelis (2018)
S. A. Ravishankar (2017)
Robert Dunne (2016)
Rick Q. Honaker (2015)
John G. Mansanti (2014)
Nick Hazen (2013)
Gerald H. Luttrell (2012)
Gary L. Simmons (2011)
Ronald O. Harma (2010)
D. Erik Spiller (2009)
Timothy R. Snider (2008)
Roe-Heon Yoon (2007)
John O. Marsden (2005)
Kenneth N. Han (2002)
Edward C. Dowling, Jr. (2001)
S. Komar Kawatra (2000)
Douglas N. Halbe (1999)
Ronald L. Wiegel (1998)
Anthony G. Moon (1996)
Brij M. Moudgal (1995)
Laurence D. Hartzog (1992)
Jan D. Miller (1991)
ROBERT M. DREYER AWARD

2023 Recipient
The 2023 recipient of the Robert M. Dreyer Award is John M. Proffett.
John receives the Dreyer Award “For his record of ore discovery, contributions to the porphyry literature, and his talent as a mentor.”

History
The Robert M. Dreyer Award, established in 1999, recognizes outstanding achievements in applied economic geology, which must have been accomplished through commercial exploration or development of metalliferous and/or non-metalliferous mineral deposits.

Past Recipients
Richard Sillitoe (2022)
Jeffrey A. Pontius (2021)
William H/ Wilkinson (2020)
Donald L. Taylor (2019)
Dennis P. Bryan (2018)
Robert W. Schafer (2017)
Ronald L. Parratt (2016)
Donald E. Ranta (2015)
Robert J. Kellie (2014)
Ihor A. Kunasz (2013)
Daniel Wood (2013)
Peter K. M. Megaw (2012)
Thomas C. Patton (2011)
William Lindqvist (2010)
Stephen Leary (2009)
C. Mark Rebagliati (2008)
John S. Livermore (2007)
Andy B. Wallace (2007)
Anton G. Esterhuizen (2006)
Charles E. Fipke (2005)
Roy Woodall (2004)
Merwin Bernstein (2003)
Leo J. Miller (2001)
J. David Lowell (2000)

SME/AIME WILLIAM LAWRENCE SAUNDERS GOLD MEDAL

2024 Recipient
The 2024 recipient of the SME/AIME William Lawrence Saunders Gold Medal is Barbara A. Filas.
Barbara receives the Saunders Award “For a lifetime of hard work, determination, and perseverance resulting in being one of the mining industry’s greatest leaders and innovators.”

History
The William Lawrence Saunders Gold Medal, established in 1927, recognizes distinguished achievement in mining other than coal. The term “mining” includes the production of metals as well as nonmetallic minerals.

Past Recipients
Richard J. Lambert (2023)
Joseph Dick (2022)
Ta M. Li (2021)
Harry M. Parker (2020)
Timothy D. Arnold (2019)
John D. Webnner (2018)
Ronald L. Parratt (2016)
William M. Zisch (2015)
Timothy J. Haddon (2014)
Ronald W. Thiessen (2013)
Ronald W. Guili (2012)
Harry F. Cougher (2011)
Douglas B. Silver (2010)
Patrick Ryan (2009)
Stanley Dempsey (2008)
Not given (2007)
James L. Madson (2006)
F. Steven Mooney (2005)
Richard T. Moolick (2001)
Robert N. Hickman (2000)
Not given (1999)
Donald V. Fites (1998)
Hugo T. Dummett (1997)
Leonard Harris (1996)
J. Burgess Winter (1995)
T. Peter Philip (1994)
Kenneth J. Barr (1993)
Philip C. Walsh (1992)
G. Frank Joklik (1991)

This is a list of honorees through the past 30 years. To view full list please visit www.aimhq.org/what-we-do/awards
PRESIDENT’S CITATION

2023 Recipients
The 2023 recipients of the President’s Citation Award are

David R. Hammond Ph.D.

SME recognizes David R. Hammond for his commitments to the Society as an ABET Evaluator and Commissioner and his contributions as an advisor to the Society on Critical Minerals. His shared knowledge and leadership on topics of vital national importance will have positive impacts to the Society and the Industry.

Steven J. Schafrik

SME recognizes Steven J. Schafrik for his outstanding efforts and leadership for the 2023 SME Midyear Meeting in Lexington, Kentucky. His efforts provided the Society with a spectacular venue while engaging the local SME Student Chapter, and everything was delivered with Kentucky hospitality. His leadership in facilitating a keynote session on topics of innovation and national regulatory issues has helped improve the future well-being of the Society.

J. Eric Shereda

SME recognizes J. Eric Shereda for his commitment to the Society, especially in raising awareness about innovations in the coal and energy sector. His contributions to the profession and exceptional leadership will have long-term positive impacts for the Society and the mining industry.

History
The President’s Citation Award was established in 1978 and recognizes a significant individual contribution to the Society. Recipients are selected at the discretion of the SME President.

Past Recipients

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<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Contribution</th>
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<td>2023</td>
<td>Richard Whiting</td>
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<td>2023</td>
<td>Gen Bodnar</td>
<td>(2011)</td>
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<td>2023</td>
<td>Michael D. Sheahan</td>
<td>(2011)</td>
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<td>2023</td>
<td>Pamela K. Wilkinson</td>
<td>(2011)</td>
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<td>2023</td>
<td>Steven J. Gardner</td>
<td>(2011)</td>
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<td>2023</td>
<td>Angie M. Harmon</td>
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<td>2023</td>
<td>Mary D. Korpi</td>
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<td>2023</td>
<td>Marie Patterson</td>
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<td>Charles L. Morgan</td>
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<td>2023</td>
<td>Karynne C. Morgan</td>
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<td>2023</td>
<td>John C. Wiltshire</td>
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<td>Jessica Elzea Kogel</td>
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<td>2023</td>
<td>Michael Korb</td>
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<td>2023</td>
<td>Gary C. Huber</td>
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<td>2023</td>
<td>Hassan El-Shall</td>
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<td>Rohini Sharma</td>
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<td>2023</td>
<td>Carol Russell</td>
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<td>2023</td>
<td>Deborah J. Shields</td>
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<td>2023</td>
<td>Dayan J. Anderson</td>
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<td>George L. Richardson</td>
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<td>2023</td>
<td>Bill A. Hancock</td>
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<td>Courtney A. Young</td>
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<td>2023</td>
<td>Joseph M. Driscoll</td>
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<td>2023</td>
<td>Jean Michel M. Rendu</td>
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<td>2023</td>
<td>David D. Lauriski</td>
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<td>T. S. Ary</td>
<td>(1991)</td>
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</tbody>
</table>

This is a list of honorees through the past 30 years. To view full list please visit smenet.org/awards
PRESIDENT’S CITATION FOR LOCAL SECTION SERVICE AWARD

2023 Recipient
The 2023 recipient of the President’s Citation for Local Section Service Award is the New York SME Section.

The Society recognizes the New York SME Section “For their outstanding service in organizing the Annual Current Trends in Mining Finance Conference. The NYC SME Section is recognized for their tremendous generosity in financial support of the SME Foundation. The section members display a high level of leadership that reflects positively on the professionalism of SME and the Society’s members.”

History
The President’s Citation Award for Local Section Service was established in 2010 and recognizes a significant individual contribution to the Society at the local section level. Recipients are selected at the discretion of the SME President.

Past Recipients
Pennsylvania Anthracite Section (2021)
Tim Alch, SME New York Section (2020)
Boise SME Section (2019)
Not given (2018)
Minnesota Section of SME (2017)
Neil & Camille Prenn, Northern Nevada Section (2016)
Ing. Romulo Mucho, Peru Section (2015)
Kenneth J. Reid, Minnesota Section (2014)
Andrea Martin, Wisconsin Section (2013)
Richard M. Katz, Alabama Section (2013)
Geneveve M. Bodnar, St. Louis Section (2012)
Michael C. Korb, Penn Anthracite Section (2011)
Rohini Sharma, Tucson Section (2010)

PAST PRESIDENT’S PLAQUE

2023 Recipient
The 2023 recipient of the Past President’s Plaque is K. Marc Le Vier.

History
The Past President’s Plaque is presented to the outgoing SME President in honor of service through the president’s term and the accomplishments that were achieved during that term.

Past Recipients
Ronald L. Parratt (2022)
William W. Edgerton (2021)
Robert W. Schafer (2020)
Hugh B. Miller (2019)
Barbara J. Arnold (2018)
John G. Mansanti (2017)
Timothy D. Arnold (2016)
J. Steven Gardner (2015)
John O. Marsden (2014)
Jessica E. Kogel (2013)
Drew A. Meyer (2012)
John N. Murphy (2011)
Nikhil C. Trivedi (2010)
William H. Wilkinson (2009)
George W. Luxbacher (2008)
James R. Arnold (2007)
Brij M. Mougdil (2006)
Barbara A. Filas (2005)
Michael Karmis (2002)
Ta M. Li (2001)
Donald E. Ranta (2000)
James W. Boyd (1999)
Ihor A. Kunasz (1998)
Richard R. Klimpel (1997)
John F. Burst (1996)
Raja V. Ramani (1995)
Robert C. Freas (1994)
Donald W. Gentry (1993)
Mark A. Anderson (1992)

This is a list of honorees through the past 30 years. To view full list please visit smenet.org/awards
SME FELLOWS

2024 Class
The 2024 Class of Fellows includes:

John T. Ellington Jr.  Kimberly F. Morrison
Jonathan G. Price  Tim J. Swendseid

History
In 2020, the SME Board changed the designation of SME Distinguished Member to that of SME Fellow. Membership as a Fellow (previously Distinguished Member) was established within the Society for Mining, Metallurgy & Exploration to honor those members who achieve distinction deemed worthy of special recognition. It acknowledges members who have attained eminence in the industry, the academic world, or who have made unusually significant contributions to a section, the Society or the Institute. No more than 1.8% of the membership may be so designated.

Past Recipients
SME Fellows – Continued

A list of honorees through the past 30 years. To view full list please visit smenet.org/awards

SME/AIME James Douglas Gold Medal

2024 Recipient

The 2024 recipient of the SME/AIME James Douglas Gold Medal is Thomas P. Battle.

Thomas P. Battle receives this medal “For his significant contributions to the metallurgical industry and world.”

History

The James Douglas Gold Medal was established in 1922. The award recognizes distinguished achievement in nonferrous metallurgy, including both the beneficiation of ores and the alloying and utilization of nonferrous metals. Dr. James Douglas, founder of Phelps Dodge Corporation and twice President of AIME, was also an AIME Honorary Member. He was an industrialist, a mining engineer, a metallurgical engineer and a noted inventor of metallurgical equipment.

Past Recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
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<tbody>
<tr>
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<td>2023</td>
<td>W. Joseph Schiltt</td>
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<tr>
<td>2023</td>
<td>Bruce H. Mason</td>
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<td>Mark A. Anderson</td>
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<td>Keith G. Papke</td>
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<td>S. Komar Kawatra</td>
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<td>G. Frank Jokhik</td>
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<td>Donald W. Gentry</td>
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<td>Maurice Deul</td>
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<td>Joseph F. Shirley</td>
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<td>Ta Ma Li</td>
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<td>William C. Peters</td>
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<td>Andrew L. Mular</td>
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<td>Kelvin K. Wu</td>
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<td>Arthur A. Schweizer</td>
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<td>1990</td>
<td>Madan M. Singh</td>
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<td>1990</td>
<td>Douglas B. Silver</td>
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<td>1990</td>
<td>Richard L. Bullock</td>
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<td>1990</td>
<td>Edward C. Downing, Jr.</td>
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<td>K. Marc Le Vier</td>
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<td>Michael K. McCarter</td>
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<td>1990</td>
<td>Dirk J. A. VanOlij</td>
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<td>Jack E. Thompson</td>
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<td>1990</td>
<td>Sukumar Baidabathysay</td>
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<td>1990</td>
<td>George J. Featherstone</td>
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<td>1990</td>
<td>R. Larry Grayson</td>
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<td>1990</td>
<td>Walter E. Heinrichs, Jr.</td>
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<tr>
<td>1990</td>
<td>Barbara A. Fliss</td>
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<td>1990</td>
<td>Christopher J. Bise</td>
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</tbody>
</table>

This is a list of honorees through the past 30 years. To view full list please visit www.aimehq.org/what-we-do/awards

2024 SME/AIME Awards Program
AIME PRESIDENTIAL CITATION

2023 Recipient
No SME Members received this award this year.

History
Established in 2012 to recognize extraordinary and dedicated service in furtherance of the goals, purposes, and traditions of AIME. It replaced the similar AIME Distinguished Service Award which was established in 1988. Recipients are typically selected by AIME’s immediate Past President in the fall of a given year. The plaque is presented at a Member Society annual conference the following year.

Past Recipients
Nikhil C. Trivedi (2022)
Raja V. Rannar (2022)
Ta M. Li (2021)
Ford Brett (2020)
George Koenig (2019)
Ponisseril Somasundaran (2017)
Deborah Shields (2017)
George Luxbacher (2016)
Behrooz Fattahi (2016)
Brajendra Mishra (2015)
Michael Karmis (2014)
Ian Sadler (2013)
Dan Thoma (2011)
Robert C. Freas (2010)
Dan Adamson (2009)
Robert H. Wagoner (2007)
Wayne E. Glenn (2002)
Thomas V. Falke (2001)
Alfred Weiss (1999)
George S. Ansell (1998)
J. Keith Brimacombe (1997)
Wayne L. Dowdery (1996)
Gerald E. Sherrod (1995)
Frank V. Nolfi, Jr. (1994)
Lloyd E. Elkins, Sr. (1992)
John E. Frost (1991)
John K. Hamme (1990)

This is a list of honorees through the past 30 years. To view full list please visit www.aimehq.org/what-we-do/awards

SME/AIME ROSSITER W. RAYMOND AWARD

2024 Recipient
SME confers this award next in 2025.

History
The Rossiter W. Raymond Memorial Award was established in 1945 and recognizes the best paper published in a given period where the lead author is a member under 35 years of age. This award honors one of the Institute’s founders who served as President and Secretary and was an Honorary Member. In addition to being a consulting mining engineer, Raymond was a practicing lawyer, soldier, writer, editor, theologian, teacher, novelist and chess player.

Past Recipients
Jon Wismann and Tony Nath (2022)
Emily J. Haas (2021)
Amritheswar Khalajhedayati and Timothy Rupert (2020)
Lu Chi and Zoya Heldari (2019)
Jackie Leung and Joydeep Sengupta (2018)
Aaron Noble (2017)
William Jost (2016)
Ibrahim Fathi and I. Yucei Adjkutu (2015)
Pallava Kaushik and Hongbin Yin (2014)
Timothy W. Beck (2013)
David J. Rowenhorst and Alexis C. Lewis (2012)
Markus J. Buehler (co-author Rafaela Parnache) (2011)
Rajen S. Sidhu and Nikhilesh Chawla (2009)
Andrew J. Elliott (2008)
Cynthia L. Dinwiddie (2007)
Jeffrey S. Krone (2006)
Matthew R. Barnett (2005)
Christopher R. Clarkson (2005)
David P. Hoydick (2004)
Carl J. Boehr (2003)
Christopher Schuh (2002)
Nicholas J. Welham (2001)
Jonggeun Che (2000)
Srinivas Veeramasuneni (1999)
Paul J. Taylor (1998)
Ronald G. Iacocca (1997)
Not given (1996)
Not given (1995)
Not given (1993)
Akhil Datta Gupta (1992)
Brian G. Thomas (1991)
PERCY NICHOLLS AWARD

2024 Recipient

The 2024 recipient of the Percy Nicholls Award is T. Anthony Toney.

T. Anthony Toney receives the Nicholls award “In recognition of his steadfast dedication to improvement and environmental stewardship, and for his unwavering focus on clients, innovation, cost control, quality, and safety.”

History

The Percy W. Nicholls Award, established in 1942, funded by AIME and ASME in alternating years, is given for notable scientific or industrial achievement in the field of solid fuels. Percy Nichols graduated from Leeds University, England, and later was awarded National and Whitworth scholarships in engineering. His earlier association was in mechanical and electrical work with the Westinghouse, Western Electric, and General Electric companies, followed by positions as engineer of works for manufacturing concerns. He became interested in heat-transmission research and heat insulations and is the author of a number of papers on these subjects. In 1925 he joined the Bureau of Mines and presented papers on fuel utilization and allied subjects.

Past Recipients

- David G. Osborne (2023)
- Michael A. Karmis (2022)
- Not given (2016-2020)
- Yoginder Paul Chugh (2015)
- Yiannis Levendis (2014)
- Barbara J. Arnold (2013)
- Terry Wall (2012)
- Sukumar Bandopadhyay (2011)
- William Beck (2009)
- George A. Richards (2008)
- Peter J. Bethell (2007)
- John L. Marion (2006)
- Gerald H. Luttrell (2005)
- Dr. Hisashi (Sho) Kobayashi (2004)
- J. Brett Harvey (2003)
- Robert E. Murray (2001)
- Peter T. Luckie (1999)
- Frank F. Aplan (1997)
- Adel F. Sarofim (1996)
- Robert L. Frantz (1993)
- Richard W. Borio (1992)
- Raja V. Ramani (1991)

This is a list of honorees through the past 30 years. To view full list please visit www.aimehq.org/what-we-do/awards

CINDY MOORE COURAGEOUS IMPACT AWARD

2023 Recipient

The 2023 recipient of the Cindy Moore Courageous Impact Award is Julie C. Lucas.

Julie receives the Cindy Moore Courageous Impact award “For her leadership, mentorship, and passion for mining and the environment are well known from the legislative halls of Minnesota to the Iron Range, throughout chambers of commerce, non-profits, and educational institutions.”

History

The Cindy Moore Courageous Impact Award was established in 2022 in honor of Cindy Moore through a generous donation from Hecla Mining. The award was established to recognize the outstanding achievements and lasting impact of women in mining or the mine service industry. The annual award will be given to a woman in the mining or the mine service industry that has shown leadership, mentorship, and enthusiasm for the industry and is making a lasting impact on the industry.

Past Recipient

- Ronel Kappes (2022)
SYD S. PENG AND FELICIA F. PENG
GROUND CONTROL IN MINING AWARD

2023 Recipient
The 2023 recipient of the Syd S. Peng and Felicia F. Peng Ground Control in Mining Award is
Russell C. Frith.
Russell receives the Peng Award “For developing insightful cause and effect relationships using empirical analyses and structural mechanics, and for making coal mines safer and more productive.”

History
The Syd S. Peng and Felicia F. Peng Ground Control in Mining Award, established in 2005, recognizes an individual or a group who has shown insight and understanding of ground control issues by developing concepts, theories or technologies that have been adopted by the mining community; or has successfully implemented a ground control design or designs or practices. The award is available to individuals or groups who have made such contributions to ground control related to coal and/or non-coal or aggregate mines.

Past Recipients

WAAIME FOUNDERS AWARD

2023 Recipient
Blanche Blattner is being recognized with the WAAIME Founders Award.
“In recognition of her exemplary service to WAAIME, especially to its International Sections and Executive Committee, along with her remarkable dedication to encouraging membership, tireless efforts to promotion, tremendous commitment of time and talents, incredible generosity of personal assets, vital mentoring of new members, and dogged determination to restore WAAIME’s scholarship funds for Peruvian students, we commend and award her this Founders Award.”

History
The Founders Award was established by the WAAIME Division in 2014 to be presented to a person in recognition of their exemplary service to WAAIME and its goals. This award is designed to recognize those members who have contributed significantly to a local section, the national board/committee, or to further the goals and purposes as set forth in WAAIME’s incorporation.

Past Recipients
2023-2024 SME DIVISION AWARD RECIPIENTS

Coal & Energy Division Awards

Coal & Energy Division Distinguished Service Award          Robert P. Kudlawiec PE
Percy Nicholls Award                                            T. Anthony Toney
SME/AIME Howard N. Eavenson Award                                Zacharias G. Agioutantis
Robert M. Stefanko Best Paper Award                           John Soles
                                                           Wei Tang
                                                           Richard A. Thomas
J. W. Woomer Award                                              Liming Yuan
Coal & Energy Division Past Chair Award                        Tathagata Ghosh
Rock Mechanics Award                                           Matthew E. Pierce

Environmental Division Awards

Environmental Distinguished Service Award                     Robert A. Mongrain
SME/AIME Environmental Stewardship Distinguished Service Award Linda A. Figueroa
Environmental Division Past Chair Award                       Jen Pepe
Environmental Benefactor Award                                 Jackie Dorr

Health & Safety Division Awards

Health & Safety: Research and Educational Excellence Award     Kamran Esmaeili
Health & Safety: Individual Excellence                         Robert J. Spears
Health & Safety Division Past Chair Award                     Emily J. Haas
Health and Safety: Operational Excellence Award               Freeport-McMoRan Inc.

Industrial Minerals & Aggregates Division Awards

A. Frank Alsobrook Industrial Minerals & Aggregates Distinguished Service Award not awarded this year
Robert W. Piekarz Award – Industrial Minerals & Aggregates Tushar Gupta
Outstanding Young Scientist Award                              Sachin Urade
Industrial Minerals & Aggregates Division Past Chair Award    Riddhika Jain
Mineral & Metallurgical Processing Division Awards

<table>
<thead>
<tr>
<th>Award</th>
<th>Recipient</th>
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<tbody>
<tr>
<td>Antoine M. Gaudin Award</td>
<td>Peter Amelunxen</td>
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<td>Arthur F. Taggart Award</td>
<td>Dr. Veerendra Singh</td>
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<td>Milton E. Wadsworth Award</td>
<td>Gus Van Weert</td>
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<td>Outstanding Young Engineer Min. &amp; Met.</td>
<td>Wencai Zhang</td>
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<td>Division</td>
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<td>Past Chair Award “Gentleman of Distinction”</td>
<td>David G. Meadows</td>
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Mining & Exploration Division Awards

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<th>Award</th>
<th>Recipient</th>
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<td>Mining &amp; Exploration Division Distinguished Service Award</td>
<td>Peter M. Haarala</td>
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<td>Ben F. Dickerson III Award</td>
<td>Dean R. Gehring</td>
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<td>SME/AIME Daniel C. Jackling Award</td>
<td>Mark P. Board</td>
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<tr>
<td>Outstanding Young Professional Award</td>
<td>Angelina K. Anani</td>
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<tr>
<td>Robert M. Peele Memorial Award</td>
<td>Matthew V. Deutsch</td>
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<td>Harry M. Parker Excellence Award</td>
<td>David M. Abbott Jr.</td>
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<tr>
<td>Mining &amp; Exploration Program Chair</td>
<td>Jenessa L. Haarala</td>
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<tr>
<td>Program Area Manager – Geosciences</td>
<td>Jennifer Baar</td>
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<tr>
<td>Program Area Manager – Operations</td>
<td>Clay A. McNail</td>
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<tr>
<td>Program Area Manager – Innovations &amp; Technologies</td>
<td>Line-Audrey M. Nkule</td>
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<tr>
<td>Miner of the Year Award</td>
<td>Kathleen M. Tew</td>
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<tr>
<td>Mining &amp; Exploration Division Past Chair Award</td>
<td>Rodney Sample</td>
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<tr>
<td>WAAIME Division Award</td>
<td>Blanche Blattner</td>
</tr>
</tbody>
</table>

Founders Award
C. DALE AND KATHLEEN B. ELIFRITS MEC LEADERSHIP AWARD

2023 Recipient
The 2023 recipient of the C. Dale and Kathleen B. Elifrits MEC Leadership Award is Joseph C. Hirschi.

Joseph receives this award “For his dedication and leadership in providing mining and minerals education to young people in both the collegiate environment and through the Scouts BSA Mining in Society merit badge.”

History
The C. Dale and Kathleen B. Elifrits MEC Leadership Award was established in 2012. The award honors an individual SME member who has provided leadership to advance the mission of the Minerals Education Coalition (MEC) and has personally been involved in the delivery of MEC programs and/or activities.

Past Recipients
- James H. Benda (2022)
- Julie Marinucci (2021)
- Charles L. Zimmerman (2020)
- Kurt P. Doran (2019)
- Melissa L. H. Martinie (2017)
- Corie Ekholm (2016)
- Kenneth Reid (2015)
- Angie Harmon (2014)
- Julie Lucas (2013)
- Richard A. Beach (2012)

MINERALS EDUCATION COALITION STUDENT CHAPTER EDUCATION OUTREACH AWARD

2023 Recipient
The 2023 recipient of the Minerals Education Coalition Student Chapter Education Outreach Award is the Norwood Student Chapter of SME-University of Kentucky.

“In recognition of the outstanding efforts of an SME Student Chapter on a college campus and their faculty and industry advisors for their accomplishments in community outreach and mining/mineral education to serve the mission of the MEC.”

History
The MEC Student Chapter Education Outreach Award was established in 2012 and recognizes the outstanding efforts of a SME Student Chapter on a college campus and their faculty and industry advisors for their accomplishments in community outreach and mining/mineral education to serve the mission of the MEC. This award replaces the GEM Student Chapter Award.

Past Recipients
- Colorado State University SME Student Chapter (2022)
- University of Kentucky - Norwood (2021)
- University of Kentucky - Norwood (2020)
- University of Kentucky - Norwood (2019)
- University of Kentucky - Norwood (2018)
- Colorado School of Mines (2017)
- University of Kentucky - Norwood (2016)
- Universidad Nacional Mayor de San Marcos (2015)
- University of Arizona (2014)
- University of Arizona (2013)
- University of Kentucky - Norwood (2012)

Past Recipients (GEM Student Chapter Award)
- Montana Tech (2011)
- West Virginia University (2010)
- Virginia Tech (2009)
- University of Kentucky (2008)
- University of Kentucky (2007)
- West Virginia University (2006)
- Montana Tech (2005)
- Colorado School of Mines (2004)
- University of Arizona (2003)
- Missouri University of Science and Technology (2002)
- Colorado School of Mines (2001)
- Missouri University of Science and Technology (2000)
MINERALS EDUCATION COALITION
SME ORGANIZATION RECOGNITION AWARD

2023 Recipient

The 2023 recipient of the Minerals Education Coalition SME Organization Recognition Award is the Central Wyoming Section of SME.

“The SME Central Wyoming Section is honored for their exceptional contributions to mining and minerals education through community engagement, scholarships, and outreach initiatives.”

History

The Minerals Education Coalition SME Organization Recognition Award was established in 2012. The award recognizes an SME group effort that has demonstrated active involvement with the MEC’s efforts either through development and use of educational materials with K-12 teachers and students or public outreach and awareness about mining and minerals.

Past Recipients

- Not given (2022)
- Not given (2021)
- Not given (2020)
- Northern Minnesota Subsection of SME (2019)
- SME Central Appalachian Section in collaboration with University of Kentucky Explosives Research Team (UKERT) (2018)
- Washington D.C. Section of SME (2017)
- Colorado Section of SME (2016)
- Pittsburgh Section of SME (2015)
- Florida Section of SME (2014)
- Minnesota Section of SME (2013)

MINERALS EDUCATION COALITION PARTNERSHIP APPRECIATION AWARD

2023 Recipient

The 2023 recipient of the Minerals Education Coalition Partnership Appreciation Award is the Luck Stone Corporation.

“For their consistent contributions to MEC activities, including financial and outstanding staff support for teacher and scout events year after year.”

History

The Minerals Education Coalition Partnership Appreciation Award was established in 2012 and recognizes a non-SME individual or organization that has exemplified support for the MEC’s mission, either through development and use of educational materials with K-12 teachers and students, or public outreach and awareness about mining and minerals.

Past Recipients

- Minnesota Minerals Education Workshop (2022)
- Pittsburgh Coal Mining Institute of America (2021)
- Kentucky Coal Association, Tyler White, President (2020)
- Ohio Aggregates & Industrial Minerals Association (2019)
- Minnesota Museum of Mining (2018)
- Minerals Research Laboratory (2017)
- Amautas Mineros Association (2016)
- Daphne D. LaPointe of the Nevada Bureau of Mines (2015)
- Paradise Valley Unified School District’s Mine Zone Program (2014)
- Women in Mining Education Foundation (2013)
- Mining Foundation of the Southwest (2012)
SME OUTSTANDING STUDENT CHAPTER AWARD

2023 Recipients
The 2023 recipient of the SME Outstanding Student Chapter Award is the Universidad Nacional de Cajamarca Student Chapter.

“We are a dedicated chapter committed to fostering the growth and success of every member by providing exceptional personal and professional development opportunities.”

History
SME recognizes outstanding achievement at the student chapter level by honoring the top contestants in its SME Outstanding Student Chapter Contest. Chapters submit annual reports that are then used to evaluate the level and quality of chapter activities and operations.

Past Recipients

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<tr>
<th>Year</th>
<th>Recipient</th>
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<td>2022</td>
<td>Sohag University SME Student Chapter</td>
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<td>National Autonomous University of Mexico</td>
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<td>University of Kentucky - Norwood</td>
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<td>2019</td>
<td>University of Kentucky</td>
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<td>2018</td>
<td>Colorado School of Mines</td>
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<td>2017</td>
<td>University of Arizona</td>
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<td>2016</td>
<td>Indian Institute of Technology</td>
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<td>2015</td>
<td>University of West Virginia Student Chapter</td>
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<td>2014</td>
<td>University of Arizona</td>
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<td>2013</td>
<td>Not given</td>
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<td>2012</td>
<td>University of Kentucky</td>
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<tr>
<td>2011</td>
<td>Colorado School of Mines</td>
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<td>Virginia Tech</td>
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<td>2010</td>
<td>New Mexico Inst. of Science &amp; Technology</td>
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<td>2009</td>
<td>University of Kentucky</td>
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<td>2008</td>
<td>West Virginia</td>
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<td>2007</td>
<td>Not given</td>
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</table>

This is a list of honorees through the past 30 years. To view full list please visit smenet.org/awards

MINERS GIVE BACK AWARD

2023 Recipient
The 2023 recipient of the Miners Give Back Award is the Colorado Section of SME.

We are a dedicated chapter committed to fostering the growth and success of every member by providing exceptional personal and professional development opportunities.

History
The first Miners Give Back (MGB) project took place on February 26, 2010, when 25 men and women gathered to help Arizona teachers. After a very busy afternoon, the volunteers had created hundreds of needed items for Arizona classrooms. In 2015, the MGB program began a three-year partnership with Engineers without Borders (EWB) to leverage EWB’s global network of on-the-ground engineers in developing countries that implement multiple projects to address the needs identified by a community. EWB’s mission complimented that of MGB’s: to support world-wide initiatives focused on humanitarian efforts that tangibly improved the lives of individuals and inspired a commitment to give back to the local community. The newest Miners Give Back initiative is intended to increase the level of participation by the SME Sections in humanitarian efforts and community service and provide rewards/recognition each year for the outstanding project(s).

Past Recipients

<table>
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SME/NSSGA STUDENT DESIGN COMPETITION

Since 2004, SME and the National Stone, Sand & Gravel Association (NSSGA) have sponsored a Student Design Contest. During the fall semester, 18 teams of college students began working on Phase 1 of the 12th Annual Competition. Each team had three weeks to prepare a design feasibility study on the Patterson Quarry using the data that had been gathered during the due diligence process. The students were asked to provide designs and recommendations for site layout, reserve estimate, operational plan and environmental impacts.

The teams competing in Phase 2 are:

- Michigan Technological University – AggCelerated
- Missouri University of Science & Tech – Cowboy Aggregates Company
- University of Arizona – SherROCK Holmes Consulting
- University of Kentucky – Bourbon Boys Consulting
- Virginia Tech – Maroon Mining
- West Virginia University – Roll Call Aggregates

Sponsored by:
Title Sponsors: Luck Stone Corp, National Stone, Sand and Gravel Association (NSSGA,)
Vulcan Materials, and Granite Construction Co.
Software Sponsor: Glacier Resource Estimation Group/Costmine

SME METALLIC STUDENT DESIGN COMPETITION

The Metallic Student Design Competition (SDC) is a hard rock competition focused on the evaluation of a mineral deposit (precious/base metal or industrial mineral) and the development of a potential flowsheet and process design. Newly created in 2020, Metallic SDC is modeled after the SME/NSSGA competition, which is based on an aggregate mining industry design problem.

The teams competing in Phase 2 are:

- Missouri University of Science & Tech – Ore Enforcement Consulting
- University of Arizona – Deep Rock Geological
- National University of Engineering – UNI’s Planners Team
- Universidad Nacional Mayor De San Marcos – MMPS Consulting
- National University of San Agustin – Team Planning Mukis
- University of Kentucky – Thoroughbred Mineral Extraction

Sponsored by:
Exclusive Sponsor: Rio Tinto
### 2023-2024 SME SCHOLARSHIP RECIPIENTS

**Robert E. Murray Innovation Scholarship (SME)**
Santiago Navia Vasquez, New Mexico Institute of Mining and Technology

### 2023-2024 SME DIVISION SCHOLARSHIP RECIPIENTS

#### Coal & Energy Division Scholarships
(Coal & Energy Division – Funded by AIME)
- Lukman Alabede, New Mexico Institute of Mining and Technology
- Jai Anand, Indian Institute of Technology (Indian School of Mines) Dhanbad
- Sikandar Azam, Pennsylvania State University
- Roya Bakzadeh, New Mexico Institute of Mining and Technology
- Pavitra Bhargava, Indian Institute of Technology (Indian School of Mines) Dhanbad
- Ali Alejandro Camacho Araujo, University of Utah
- Hannah Chop, The Pennsylvania State University
- Shihua Han, Pennsylvania State University
- Rohit Pandurang Madavi, South Dakota School of Mines and Technology
- Seyedkamal Mousavinezhad, University of Nevada, Reno
- Sima Nikfar, University of Nevada, Reno
- Shubham Pandey, Indian Institute of Technology (Indian School of Mines), Dhanbad
- Om Sandilya, Indian Institute of Technology (Indian School of Mines) Dhanbad
- Nikita Sharma, Indian Institute of Technology (Indian School of Mines) IIT ISM Dhanbad
- Himanshu Shekhar, Indian Institute of Technology (Indian School of Mines) Dhanbad
- Adam Tesch, Virginia Tech

#### John Sidney Marshall Memorial Scholarships
(Coal & Energy Division – Funded by AIME)
- Jacob Horner, West Virginia University
- Colby McGrady, Virginia Tech

#### Mine Ventilation Scholarships
(Coal & Energy and Mining & Exploration Division)
- Kate Brown Requist, University of Arizona

#### Environmental Division Scholarships
- Maxwell Bawa, Oklahoma State University
- Jason Connott, South Dakota School of Mines
- Daniela Velásquez Vanejas, Universidad Nacional de Colombia

#### Veolia Water Technologies Scholarship
(Environmental Division)
- Linda Mishell Jaramillo Urrego, Southern Methodist University

#### Health & Safety Division Scholarships
- Amelia Faust, University of Kentucky
- Jeffrey Gordon, New Mexico Institute of Mines Technology

#### Dr. Jessica Elzea Kogel Mining Health and Safety Scholarship
(Health & Safety Division)
- Kate Brown Requist, University of Arizona

#### Mineral & Metallurgical Processing Division Scholarships
- Angela Tita, University of Nevada, Reno
- Hannah Chop, The Pennsylvania State University
- Kathleen Troy, Virginia Tech
- Lix Shirley Tafur Figueira, Universidad Nacional Mayor de San Marcos
- Spenser Walchuk, Missouri University of Science and Technology
2023-2024 SME DIVISION SCHOLARSHIP RECIPIENTS – Continued

Richard Klimpel Memorial Scholarship
(Mineral & Metallurgical Processing Division)
Jordan Gillis, Virginia Tech

Rong Yu Wan Ph.D. Dissertation Award
(Mineral & Metallurgical Processing Division)
Bin Ji, Virginia Polytechnic Institute and State University

Mining & Exploration Division Scholarships
Aiden Harmon, Michigan Technological University
Paula Martinez, National University of San Marcos
Santiago Reina Davila, Missouri University of Science and Technology
Adam Tesch, Virginia Tech
Kathleen Troy, Virginia Tech
Gunnar Wurst, Missouri University of Science and Technology

Eugene P. Pfleider Scholarship
(Mining & Exploration Division - Funded by AIME)
Alexander Lindsey, Montana Technological University

Henry DeWitt Smith Scholarship
(Mining & Exploration Division - Funded by AIME)
James Bayong, University of British Columbia
Maria Carolina Beltran, New Mexico Institute of Mining and Technology

Steven C. Potter Scholarship
(Mining & Exploration Division)
Jingping He, The University of Arizona

Stewart Wallace Memorial Scholarship
(Mining & Exploration Division and Industrial Minerals & Aggregates Division)
Isabella Cerchiaro, New Mexico Institute of Mining and Technology
Lucas Forster, Colorado School of Mines

Gerald V. Henderson Memorial Scholarship
(Industrial Minerals & Aggregates Division)
Sima Nikfar, University of Nevada, Reno
WAAIME Division Scholarships
2023 WAAIME Scholarship Winners

Benjamin Abankwa, New Mexico Tech
Amir Abdelmawla, Iowa
Maria Camila Acevedo Garcia, New Mexico Tech
Cyrus Addy, Missouri University of Science and Technology
Nana A. Adoo, South Dakota School of Mines
Alejandro Agudelo Mira, West Virginia University
Abduljeleel Ajibona, Virginia Tech
Rosemary Akamaqueenwa, Penn State
Lukman Alabede, New Mexico Tech
Zulqarnain Ahmad Ali, University of Kentucky
Joeison Alves
Albert Einstein Amponsem, Missouri University of Science and Technology, Rold
Festus Animah, Virginia Tech
Cecilia Estefania Aramayo Chavez, University of Kentucky
Fatih Aranoglu, Colorado School of Mines
BrightArko, New Mexico Tech
Brian Arnold, Virginia Tech
Erkan Ugur Aslan, Colorado School of Mines
Kidochukwu Atube, University of South Carolina
Kernalan Aydogdu, Colorado School of Mines
Sikander Azam, Penn State
Kawthar Babatunde, Penn State
Roya Bakdadeh, New Mexico Tech
Patrick Barnett, Saint Francis University
Kartik Battulwar, University of Nevada, Reno
Maxwell Bawa, Oklahoma State University
Maria Beltran, New Mexico Tech
Karlee Bolle, University of Nevada, Reno
Zachary Brown, Penn State
Michael Burns, University of Nevada, Reno
Marlee Butz, Virginia Tech
Henry Campsie, Virginia Tech
Xutian Cao, Penn State
Esteban Cárdenas, West Virginia University
Syabilla Cardosh, West Virginia University
Isabel Casasbuenas, Colorado School of Mines
Akash Chaurasia, Colorado School of Mines
Hannah Chop, Penn State
Masrur Ahmed Chowdhury, Montana State University, Bozeman
Tullo Dias de Almeida, Utah
Benjamin Diddle, University of Kentucky
Zechen Ding, Stevens Institute
Jack Dockrill, Virginia Tech
Spencer Doran, Oregon State
Sultan Elicin Erolgu, Colorado School of Mines
oluwaseun famobuwa, West Virginia University
Kayode Fesomade, Montana State University - Bozeman
Tristin Findlaym, Penn State
Elmer Flores, University of Nevada, Reno
Maria Alejandra Franco Montoya, University of Arizona
Triveni Gangadari, Penn State
Zolboo Garinchuluun, Columbia
Gorkem Geclim, West Virginia University
Milad Ghuhrhamaneisalou, University of Nevada, Reno
Jesse Gill, Penn State
Jordan Gillis, Virginia Tech
Jose Gomez, University of Nevada, Reno
Jeffrey Gordon, New Mexico Tech
August Greth, Virginia Tech
Kristin Guerin-Davey, South Dakota School of Mines
Shiqi Guo, Columbia University
Mohit Gupta, Virginia Tech
Luke Guzman, South Dakota School of Mines
Eugene Gyawu, Missouri University Of Science and Technology, Rold
Shihua Han, Penn State
Madison Haydn-Myer, University of Minnesota - Twin Cities
Changdi He, Utah
XinlinHe, Penn State
Kendall Heilig, Colorado School of Mines
Chandima Hevapathiranage, Penn State
Brianna Hoff, South Dakota School of Mines
Dustin Howell, Virginia Tech
Rosinda Huse, University of Kentucky
Arsha Ilaty, University of Nevada, Reno
Zohreh Iranamesn, University of Nevada, Reno
Hari Jammalamadaka, Penn State
Barrett Jessen, University of Oklahoma
Rosiel Jimenez, West Virginia University
YolverJimenez Ibanez, West Virginia University
Miao Jin, Penn State
Ruby Jost, University of Kentucky
Saeede Kadivar, University of Nevada, Reno
Muhammed Kahraman, Colorado School of Mines
Alireza Kamran Pishhehri, University of Nevada, Reno
Kutay Karadeniz, Missouri
MD Mostafjul Karim, Penn State
Cengiz Kaydum, West Virginia University
Hatice Esin Kaydum, West Virginia University
Mariam Koanda, New Mexico Tech
Peter Kolapo, University of Kentucky
Natalya Kublik, Arizona State
Luís Larot Machacca, South Dakota School of Mines
Shiyu Li, Virginia Tech
Simon Lotero, New Mexico Tech
Matthias Lundberg, University of Nevada, Reno
Andrew Lupachino, University of Kentucky
Ming Ma, Penn State
Eurico Madureira, New Mexico Tech
Ernesto Maidanado, University of Kentucky
Waylon Martin, University of Kentucky
Baylor Mattingly, University of Kentucky
Zachary McCoy, University of Nevada, Reno
Sandeep Mirdani, University of Nevada, Reno
Theophilus Mensah
Luis Felipe Mesquita, Penn State
Sanchay Mukherjee, Pennsylvania State University
Spencer Mullikin, Colorado School of Mines
Santiago Navia Vasquez, New Mexico Tech
Sima Nikfar, University of Nevada, Reno
Sheida Nili, University of Nevada, Reno
Line-Audrey Nkule Sonkeang, Colorado School of Mines
Peter Neo, Missouri University of Science and Technology
Natanna Nunes de Oliveira, University of Utah
Ifemail Nwankwo, Penn State
Oznur Orel, Virginia Tech
Daniel Kyei Oppong, University of Kentucky
Bankole Osho, University of Nevada, Reno
Emmanuel Yaw Owusu-Fordjour, University of Utah
Yucel Ozsoy, University of Kentucky
Klaus Pacheco Hague, Colorado School of Mines
Madhav Patel, Penn State
Mohsen Rabbani, University of Nevada, Reno
Rylan Rasmusson, South Dakota School of Mines
Caleb Ratliff, University of Kentucky
Joseph Rhoades, Utah
Joshua Riffle, West Virginia University
Jesus David Romero Benitez, University of Kentucky
Olufemi Salami, Missouri
Madison Sandovall, University of Nevada, Reno
Lauren Sankovich, University of Nevada, Reno
Lilly Schroer, Georgia Institute of Technology
Kelley Anne Severinsen, Utah
Mahdi Shahsavvar, University of Nevada, Reno
Gaurav Sharma, Penn State
Tsunami Sharmba, Penn State
Jordan Smith, Utah
Justin Sofilkanich, University of Oklahoma
Zane Swainston, Colorado School of Mines
Mohsen Takhtravan, University of Nevada, Reno
Akash Talapatra, Virginia Tech
Adam Tesch, Virginia Tech
Saboor Ahmad Torabi, Penn State
Kathleen Troy, Virginia Tech
Mahmud Uluer, Virginia Tech
Juan David Valencia Quiceno, West Virginia University
Angela Nataly Vanegas, New Mexico Tech
Justin Waybright, West Virginia University
Zachary Wedding, University of Kentucky
Yidi Wu, Penn State
Zhongqing Xiao, Virginia Tech
Burc Yaman, Colorado School of Mines
Ya Yao, Missouri
Baran Can Yucel, Penn State
Lee Zamalloa, Colorado School of Mines
Gaibo Zhao, West Virginia University
Qingqi Zhao, Stevens Institute

2023 Lewis E. and Elizabeth W. Young Scholarships
(AIME/WAAIME)
Prastuti Upadhyay, Drexel University
Mohammad Anwar Karim, University of Nevada
Garrett Fields, University of Tennessee
Akash Talapatra, Virginia Tech
Festus Animah, Virginia Tech
Abduljeleel Ajibona, Virginia Tech 7. Jacob Horner, WVU
Ashton Crawford, WVU
Justin Waybright, WVU
Chase Gleason, Penn State
James Benke, Pitt
Sean Cotton, Pitt
2023-2024 SME FOUNDATION SCHOLARSHIPS RECIPIENTS

**J.H. Fletcher & Co. Scholarship**
Colby McGrady, Virginia Tech

**Raja V. & Geetha V. Ramani Graduate Students Award**
Sikandar Azami, Pennsylvania State University  
Oluwafemi Salami, Missouri S&T, Rolla  
Mustafa Suner, West Virginia University  
Angela Tita, University of Nevada, Reno

**Stantec/McIntosh Engineering Scholarship**
Nikita Sharma, Indian Institute of Technology (Indian School of Mines) IIT ISM Dhanbad

**MMSA/SMEF Presidential Scholarship**
Alexander Lindsey, Montana Technological University  
Ryan Sibley, Missouri University of Science and Technology

**Syd S. and Felicia F. Peng Ground Control in Mining Scholarship**
Ava Azadi, University of Arizona  
Alim Elibol, West Virginia University  
Maria Alejandra Franco Montoya, University of Arizona  
Madison Haydn-Myer, Montana Technological University  
Abduljeeleel Ajibona, Virginia Tech  
Mehrdad Imani Tilenoei, Colorado School of Mines  
Rosbel Jimenez, West Virginia University  
Alper Kirmaci, Missouri University of Science and Technology  
Kayode Komolafe, Colorado School of Mines  
Zachary Wedding, University of Kentucky

**Ernest K. Lehmann Memorial Scholarship**
Rodiat Amusan, Federal University of Technology Akure  
Opeyemi Abeyemi, Federal University of Technology Akure  
Gideon Oke, Federal University of Technology, Akure

**George V. Weisdack Memorial Scholarship**
Hannah Chop, The Pennsylvania State University

**Freeport-McMoRan Inc. Career Development Grants**
Jiaqi Jin, University of Utah  
Nathalie Risso, University of Arizona

**SME Ph.D. Fellowship Grant**
Younes Shekarian, Penn State