PRESIDENT'S AWARD BREAKFAST
8–9:45 a.m. | 8 May 2018 | Pennsylvania Convention Center

Keynote Presentation
Providing Innovative and Sustainable Steel Solutions

by
ROGER NEWPORT
chief executive officer, AK Steel

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The AIST president, Randy C. Skagen, is pleased to host the 2018 President's Award Breakfast. The breakfast program includes the presentation of the AIST Board of Directors Awards, followed by a keynote address from our guest lecturer.

Welcome
Ronald E. Ashburn
executive director, AIST

Invocation
Philip K. Bell
president, Steel Manufacturers Association

Breakfast
Ronald E. Ashburn

Introductions

President's Message
Randy C. Skagen
2017-2018 AIST president

AIST Foundation Message
Kolin L. Keller
2017-2019 AIST Foundation president

Presentation of AIST Board of Directors Awards
Randy C. Skagen

Keynote Address
Roger K. Newport
chief executive officer, AK Steel Corp.

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4 + AISTech 2018
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Philip K. Bell, president, Steel Manufacturers Association
Gianpietro Benedetti, chairman, Danieli & C. Officine Meccaniche S.p.A.
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Richard L. Bodnar, director, R&D, SSAB Iowa Inc.
William P. Breedlove, executive consultant — metals and mining industries
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Kenneth S. Coley, professor and associate dean, McMaster University
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Thaddeus Sendzimir, president and chief executive officer, T. Sendzimir Inc.
John G. Speer, John Henry Moore Professor of Physical Metallurgy and director, Advanced Steel Processing and Products Research Center, Colorado School of Mines, and president, AIME
Jason B. Sychterz, vice president, metallurgical services, Union Electric Steel Corp.
Richard P. Teets Jr., consultant and board of directors, Steel Dynamics Inc.
Daniele Tolazzi, research and development, MORE S.r.l.

* - AIST Distinguished Member and Fellow
† - Past President
‡ - Town Hall Forum Participant
§ - Award Recipient
‖ - AIME Honorary Member
· - AISTech 2018 Conference Planning Committee Chair
2018 AIST BOARD OF DIRECTORS AWARDS

The AIST Awards and Recognition Program was established in 2004 and is administered through a standing committee of the board of directors. The purpose of the AIST Awards and Recognition Program is to recognize, through peer review, the active leadership and significant contributions of individuals or companies to AIST and the global iron and steel industry. Steven J. Henderson, Commercial Metals Company, served as chair of the AIST Awards and Recognition Program Committee for 2018.

AIST Hunt-Kelly Outstanding Paper Award (AIME)

The AIST Hunt-Kelly Outstanding Paper Award (AIME) was established in 2004 by combining the ISS Robert W. Hunt Award (1920) and the AISE John F. Kelly Award (1943). A technical paper of the year will be selected from the author or authors, not necessarily members of the association, of the best published paper of the previous year.

First Place (US$5,000) — “New Pseudo-3D Dynamic Secondary Cooling Model Implementation and Results at ArcelorMittal Burns Harbor”

Kenneth E. Blazek (top row, left), principal scientist, ArcelorMittal R&D – East Chicago, East Chicago, Ind., USA
Rudolf Moravec (top row, right), senior research engineer, ArcelorMittal R&D – East Chicago, East Chicago, Ind., USA
Kai Zheng (middle row, left), formerly research engineer, ArcelorMittal USA Research Laboratories, East Chicago, Ind., USA
Michael L. Lowry (middle row, right), engineer, ArcelorMittal USA Research Laboratories, East Chicago, Ind., USA
Nicholas Gregurich (bottom row, left), caster process manager, proactive, ArcelorMittal Burns Harbor, Chesterton, Ind., USA
Garrett P. Flick (bottom row, right), caster process manager and engineer, ArcelorMittal Burns Harbor, Chesterton, Ind., USA

Sponsored by SunCoke Energy™ FLUOR.
Second Place (US$2,500) — “Development of Tailored Roll Grade Materials for the Early Stands of Finishing Hot Mills”

Andrew J. Brown (first row, left), senior metallurgist, Union Electric Steel UK Ltd., Gateshead, U.K.

Jason B. Sychterz (first row, right), vice president, metallurgical services, Union Electric Steel Corp., Carnegie, Pa., USA

P. Hank Bolt (second row, left), principal scientist lead rolls team, Tata Steel Research & Development, IJmuiden Technology Centre, IJmuiden, Netherlands

Monica Kruglia (second row, right), principal researcher — microstructure and surface characterization, Tata Steel Research & Development, IJmuiden Technology Centre, IJmuiden, Netherlands

Sabri Sengo (third row, left), principal researcher — microstructure and surface characterization, Tata Steel Research & Development, IJmuiden Technology Centre, IJmuiden, Netherlands

Marco Rijnders (third row, right), principal researcher — microstructure and surface characterization, Tata Steel Research & Development, IJmuiden Technology Centre, IJmuiden, Netherlands

Alan Scholes (fourth row, left), chief technology officer, Materials Processing Institute, Middlesbrough, U.K.

Eliette Mathey (fourth row, right), R&D manager, ArcelorMittal Maizieres Research S.A., Maizieres-lès-Metz, France

Gisèle Walmag (fifth row, left), program leader, Centre de Recherches Métallurgiques, Liège, Belgium

Olivier Lemaire (fifth row, right), team leader, Centre de Recherches Métallurgiques, Liège, Belgium

Jurgen Malbrancke (sixth row), team leader, Centre de Recherches Métallurgiques, Liège, Belgium

Third Place ($1,000) — “Installation and Operational Results of LINDARC™ Real-Time Laser Offgas Analysis System at Acciaierie Bertoli Safau – ABS (Italy) Electric Arc Furnace”

Daniele Tolazzi (top row, left), research and development, MORE S.r.l., Gemona del Friuli (UD), Italy

Manuele Piazza (top row, right), Danielli Automation S.p.A., Buttrio (UD), Italy

Oliver Mllocco (bottom row), Acciaierie Bertoli Safau S.p.A., Pozzuolo del Friuli (UD), Italy
AIST Benjamin F. Fairless Award (AIME)

The AIST Benjamin F. Fairless Award (AIME) was established in 1954 in honor of Benjamin F. Fairless, chairman of the board of U.S. Steel, for his intense interest in the technology and development of the iron and steel industry. This award recognizes distinguished achievement in iron and steel production and ferrous metallurgy.

For lifetime achievements in innovative steel processing and product development. An internationally recognized expert in ferrous metallurgy, Dr. Speer’s work has advanced the overall understanding of the fundamental principles that govern phase transformation and property development in steel alloys. His research into the quenching and partitioning process has moved from the theoretical to the practical, and has profoundly impacted the development of advanced high-strength steels.

John Speer, John Henry Moore Professor of Physical Metallurgy and director, Advanced Steel Processing and Products Research Center, Colorado School of Mines, Golden, Colo., USA

John Speer is the John Henry Moore Professor of Physical Metallurgy and director of the Advanced Steel Processing and Products Research Center (ASPPRC) at the Colorado School of Mines. He received a B.S. degree from Lehigh University in metallurgy and materials engineering, and a D.Phil. in physical metallurgy from the University of Oxford, U.K. He was affiliated with the Homer Research Laboratories of Bethlehem Steel Corp. from 1983 to 1997, where he was involved in product research, customer and operations support, and research management. He became a professor in the Department of Metallurgical and Materials Engineering at Colorado School of Mines in 1997, where he teaches metallurgy at the undergraduate and graduate levels, and participates in research activities with the ASPPRC. Speer also served as Mines’ associate vice president for research from 2008 to 2013. He is a Distinguished Member of AIST, Fellow of ASM International, an Iron & Steel Society Professor, past chairman of the Ferrous Metals Committee of SAE International, and is president of AIME.

AIST John F. Elliott Lectureship

The AIST John F. Elliott Lectureship was established in 1990 to perpetuate the memory of the late professor John F. Elliott, of the Massachusetts Institute of Technology, for his outstanding career as an educator in the field of chemical process metallurgy. This honorary lectureship is designed to acquaint students and engineers with the exciting opportunities in chemical process metallurgy and materials chemistry. It is presented in recognition of distinguished contributions in chemical process metallurgy and materials chemistry to the iron and steel industry. The recipient shall present a lecture at three to five universities throughout the year following selection.

For exceptional research in slag-metal kinetics that is inspiring new insights into metal processing, and for his selfless efforts to share his knowledge with the steel industry through collaboration and the mentorship of the next generation of process metallurgists.

Kenneth S. Coley, professor and associate dean, McMaster University, Hamilton, Ont., Canada

Kenneth Coley is associate dean academic, Faculty of Engineering; professor; and director, McMaster Steel Research Centre, at McMaster University. He joined McMaster in 1996 as an associate professor and gained tenure in 1999. He served as chairman of the Materials Science and Engineering Department from 2005 to 2008, during which time the number of undergraduate students enrolled in the program doubled. Prior
to McMaster, he was the British Steel Lecture in Process Metallurgy at the University of Strathclyde from 1989 to 1996. Before joining the University of Strathclyde, he was higher scientific officer and then senior scientific officer at the National Physical Laboratory (U.K.), from 1986 to 1989. He holds a patent for “Process for Producing Metal Powder” and has had more than 50 papers published. He has also delivered lectures on oxygen steelmaking practices at international steelmaking conferences.

**AIST J. Keith Brimacombe Memorial Lecturer**

The Howe Memorial Lecture was established in 1923 to honor Henry Marion Howe, who helped turn steelmaking from an art into a science with his gift of observation and dedication.

*In recognition of his global influence as a researcher, educator and mentor who has inspired students to study and pursue careers in ferrous metallurgy. His leadership in creating opportunities for industry-academia interaction and engagement has added significant value for many students, researchers and engineers throughout the steel industry.*

"The Continuing Development of Modern Steel Products"

John Speer, John Henry Moore Professor of Physical Metallurgy and director, Advanced Steel Processing and Products Research Center, Colorado School of Mines, Golden, Colo., USA

See page 9 for photo and bio.

**AIST Tadeusz Sendzimir Memorial Medal**

The AIST Tadeusz Sendzimir Memorial Medal was established in 1990 to perpetuate the memory of Dr. Tadeusz Sendzimir’s achievements and engineering contributions in developing process equipment for the steel industry. The award is presented in recognition of an individual who has advanced steelmaking through the invention, development or application of new manufacturing processes or equipment.

*In recognition of more than half a century of engineering contributions in the advancement of process equipment for steel manufacturing. Throughout his remarkable career with Danieli, Mr. Benedetti’s passion for innovation is evident with more than 90 patents bearing his name, which not only span the entire steel manufacturing process but also have improved plant efficiencies worldwide. Through perseverance, expertise and strategic vision, he has guided the company to achieve global prominence by striving to lead the technological evolution of the steel industry.*

Gianpietro Benedetti, chairman, Danieli & C. Officine Meccaniche S.p.A., Buttrio (UD), Italy

Gianpietro Benedetti is the chairman and chief executive officer (CEO) of Danieli & C. Officine Meccaniche S.p.A. In 1951, he received his diploma in electrical engineering. That same year he began working in Danieli's design technical offices. He then advanced to mechanical project engineer in 1963 and plant startup engineer in 1966. He then took on the roles of manager of rolling mill process and roll pass design offices (1965), sales director (1976), and research and development and sales director (1982). In 1986 he was named Danieli Group managing director, president and CEO in 1990. In 2003 he was elected chairman of the Danieli board of directors. Since 25 September 2017, he has been chairman of the board of directors and of the executive board at Danieli & C. Officine Meccaniche S.p.A. He has received “honoris causa” degrees from the University of Trieste and the University of Udine. In 2008, he was appointed to the Order of Merit for Labour. Since 2010, he has served as president of Foundation ITS – Technical Secondary School in Italy. Benedetti holds numerous steelmaking machine and process patents.
AIST Distinguished Member and Fellow Award

The AIST Distinguished Member and Fellow Award, established in 1975, shall be awarded to an AIST member who has attained eminent distinction in advancing the technical development, production, processing and application of iron and steel and/or related activities of the industry, and has performed meritorious service to the association.

For his sustained and significant contributions to the advancement of the metallurgy of rolled and forged steel products, and for outstanding service to AIST. Dr. Bodnar’s prolific career has resulted in the development of new steel products and more than 100 published technical papers, many of which have received the steel industry’s top honors. His leadership in AIST Technology Committees and in the organization of special programs and symposia has created invaluable opportunities for educational and technical exchange.

Richard L. Bodnar, director, R&D, SSAB Iowa Inc., Muscatine, Iowa, USA

Richard L. Bodnar received his B.S. degree in physics from Muhlenberg College in 1975. He then received his M.S. in engineering, metallurgy and materials science in 1977. He began his career in the steel industry in 1977 as a mill metallurgist at Bethlehem Steel Corp. in Bethlehem, Pa., USA. He progressed to senior research engineer at Bethlehem in 1981 and then research supervisor in 1996. In 2005 he joined SSAB Americas as director of applications engineering and new product development, where he oversaw plate product development at the Regina, Montpelier and Axis plants. In 2009 he became director of research and development at SSAB Americas. In addition, he serves as adjunct assistant professor in the Mechanical and Industrial Engineering Department at the University of Iowa.

In recognition of his service to the steel industry and his willingness to share his extensive knowledge of steelmaking processes. Through his leadership in developing global AIST platforms such as the International Steel Academy, the International Study Tour program and the European Steel Forum, and for his active contributions to numerous AIST Technology Committees and Training Courses, Dr. Cappel has been an exemplary ambassador for AIST’s global mission.

Jürgen Cappel, senior consultant, Iron & Steel, Cappel Stahl Consulting GmbH, Schmitzberg, Meerbush, Germany

Jürgen Cappel holds a doctoral degree in ferrous metallurgical engineering from RWTH Aachen in Aachen, Germany. He has more than 20 years of experience working in iron- and steelmaking facilities. His responsibilities included management of the blast furnace process, the basic oxygen furnace and secondary treatment processes, raw material procurement, steelmaking research and development, and overall steelmaking production. Throughout his career, he has been an active proponent for fundamental education of individuals in the steel industry. He provided instruction to many of his employees while in steel production. Currently, as a consultant in the steel industry, one of the primary benefits to his customers is the education of their employees in producing steel efficiently in a safe, sustainable environment.
In recognition of a 43-year career in the steel industry, he exhibited the drive, determination and leadership ability that personifies the vision of AIST. Mr. McClaskey spent his entire career within Midrex family companies, rising from an entry-level engineer to president and CEO of Midrex Technologies Inc. There, he championed global DRI development, leading Midrex through several industry cycles and overseeing some of the most successful years in the company's history.

James D. McClaskey, retired, Midrex Technologies Inc., Charlotte, N.C., USA

James D. McClaskey joined Midrex Corp. as a design engineer in 1974, after graduation from West Virginia Institute of Technology (now part of West Virginia University) with degrees in civil engineering and business. During his 43-year career, he held numerous management and leadership positions within Midrex, serving as its president and chief executive officer from 2003 to 2014, and chief executive officer until his retirement in October 2017. McClaskey has dedicated his professional life to establishing the MIDREX brand and expanding its technical and commercial influence in the worldwide direct reduction industry. He led the Midrex team involved in the design and engineering of the first plant based on the world's most successful hot briquetted iron technology. He was the catalyst for establishing strategically located offices in Europe, Asia and India, as well as building relationships with top specialized equipment and engineering companies that continue today. Under his leadership, Midrex recorded its most profitable years in company history.

For his contributions in developing the Cranes Technology Committee (CTC) over the past three decades. His attentive input into nearly every aspect and subject of CTC meetings has helped solve crane-related problems for many companies around the world. He has been a loyal supporter of the Annual Crane Symposium since its inception, and his reassuring nature along with his years of experience and expertise make Mr. McGinley a valued friend for the global steel industry.

Mark J. McGinley, product manager, Hall Industries, Ellwood City, Pa., USA

Mark McGinley is product manager - steel wheels and components for Hall Industries Inc., based in Ellwood City, Pa., USA, where he has been responsible for the start up and development of the Steel Wheels business unit. He holds a B.S. degree in mechanical engineering from Carnegie-Mellon University and an M.B.A. from the Tepper School of Business at Carnegie-Mellon University. McGinley began his career in strategic market planning at United States Steel Corporation in 1961 and became marketing manager for the Specialty Steel Products Division of U. S. Steel in 1983, based at the McKees Rocks plant. When the plant closed in 1985, McGinley and two partners bought the facility and restarted the business as McKee S Forkings Inc. in 1986. He became vice president — marketing and sales, and grew the business into a profitable manufacturer of forged steel wheels and industrial forgings. In addition to the marketing and sales responsibilities, McGinley was responsible for product engineering and developed a number of innovative wheel products for the overhead crane and material handling industries. After three years of successful growth, the partners sold McKees Rocks Forkings to Trinity Industries in 1989. McGinley stayed on in the same role and continued growing the business until his departure in 2012 when he joined Hall Industries Inc. Hall Industries is a manufacturing, engineering and service business that provides engineered products and services to a wide variety of business sectors. McGinley has been an AIST member since 1985 and has been a contributing member of the Cranes Technology Committee for 33 years.
AIST Steelmaker of the Year Award

The AIST Steelmaker of the Year Award, established in 1991, recognizes contributions of a prominent individual to the steel industry. The recipient may be from any integrated or mini-mill steel company from throughout the world.

In recognition of his visionary leadership and strategic planning, which is driving decisive changes within Tata Steel to achieve technological leadership, operational excellence and a culture of innovation. Mr. Sen has pioneered the regionalization of advanced automotive steel grades for the Indian automobile industry, has driven the Total Quality Management philosophy across industry sectors, and has evolved the application of branding concepts focused on de-commoditizing steel. His sincere commitment to advancing the AIST mission and vision has created value for our members throughout the world.

Anand Sen, president, Total Quality Management and Steel Business, Tata Steel Ltd., Jamshedpur, India

Anand Sen is responsible for the Steel Business, including marketing and sales, technology and for the promotion of Total Quality Management across Tata Steel India. He graduated from one of the premier engineering institutions of the country, the Indian Institute of Technology (IIT) Kharagpur (B.Tech, Hons), as a metallurgical engineer. Subsequently, he completed his post-graduation studies in marketing from Indian Institute of Management, Kolkata and also has an Executive M.B.A. from CEDEP at INSEAD, France. Sen has worked across marketing and sales, strategy and business leadership, operations, maintenance, supply chain and projects, in his more-than-three-decade-long career. Sen is on the board of Tata Steel Processing and Distribution Ltd. (chairman); NatSteel Holdings Pvt. Ltd. (chairman), Tata BlueScope Ltd.; The Tinplate Company of India Ltd.; and JCAPCPL, a JV with Nippon Steel and Sumitomo Metals Corp. He is also board member of Xavier Institute of Management, Bhubaneswar. Sen is vice president of the Indian Institute of Metals (IIM) and chairman of its Ferrous division. He is chair of the AIST India Member Chapter. He is also a member of the advisory committees of the Centre of Excellence in Steel Technology at IIT Bombay and IIT Madras. In addition, Sen is an elected Corporate Member of the All India Management Association and chairman of CII's Logistics & Supply Chain Taskforce for the Eastern Region. He was awarded the Esar Gold Medal of the Indian Institute of Metals in 2004 and the IIM Tata Gold Medal in 2012. IIT Kharagpur has recently conferred him the Distinguished Alumnus Award 2017 for his exceptional professional achievements in the industry.
AIST William T. Hogan, S.J. Lecture Award

The AIST William T. Hogan, S.J. Memorial Lecture Award was established in 1990 in memory of the late Rev. William T. Hogan, S.J., director of Fordham University's Industrial Economics Research Institute and internationally known steel industry economist. This honorary lecturer is selected in recognition of individual outstanding leadership to the iron and steel industry with selected lectures covering trade, economics, steel industry operations, developments or forecasts. This lecture award is given in appreciation of the keynote lecture presented during the President's Award Breakfast at AISTech, representing the annual gathering of the AIST membership.

“Providing Innovative and Sustainable Steel Solutions”

Roger K. Newport, chief executive officer, AK Steel Corp., West Chester, Ohio, USA

Roger Newport was named chief executive officer and a member of the board of directors of AK Steel Corp. in 2016. Newport started his career with the company in 1985 in the accounting department. He advanced through a number of increasingly responsible finance, sales and marketing roles at the corporate headquarters and the company's Middletown Works. He was named controller in 2001 and chief accounting officer in 2004. He advanced to vice president, business planning and development in 2010, and vice president, finance and chief financial officer in 2012. He was named senior vice president, finance and chief financial officer in 2014, and executive vice president, finance and chief financial officer in 2015. Newport serves as vice chairman of the board of directors of the American Iron and Steel Institute (AISI) and is chairman of the AISI Finance Committee. He is a member of the board of directors of the World Steel Association and a member of the Steel Market Development Institute CEO Group. Newport is a member of the Washington, D.C., USA-based Business Roundtable. He is also a member of Financial Executives International. Newport serves on the business advisory council for the Lindner College of Business at the University of Cincinnati. Newport holds a B.B.A. degree in accounting from the University of Cincinnati and an M.B.A. with honors from Xavier University.

The following awards will be presented on the evening of 8 May 2018:

AIST Outstanding Chapter Growth Award

The AIST Outstanding Chapter Growth Award was established in 1996 as the Past President's Award and was changed to the AIST Outstanding Chapter Growth Awards in 2004. Four awards are presented each year to the AIST Member Chapters, recognizing two chapters with the greatest percentage increase in total membership and two chapters with the greatest numerical increase in total membership during the chapter year.

Greatest Numerical Growth:

Darrell E. Sturgill (left), Ohio Valley Member Chapter chair
Kevin Bort (right), Southeast Member Chapter chair

Greatest Percentage Growth:

Thomas M. Marks (left), Birmingham Member Chapter chair
Taylor W. Murphy (right), Detroit Member Chapter chair
2018 AIST TECHNOLOGY COMMITTEE AWARDS

In addition to the AIST Board of Directors Awards, each of the nine Technology Divisions may establish up to four awards, to be presented at various AIST venues, including a technical session at AISTech or MS&T, a Technology Committee meeting, a Technology Training Conference, or a Member Chapter event.

I. Safety and Environment Technology Division

**Don B. Daily Award**

Established in 2009, in honor of Don B. Daily, president of Gallatin Steel, for his leadership and undeniable passion to improve safety throughout the steel industry. This award is presented to the author of paper selected by the AIST Safety & Health Technology Committee to be the best technical paper presented during the AIST Safety & Health Conference.

*Paper Title: “The Day We Will Remember”*

**Ricky Rollins**, president, Ricky Rollins Safety Speeches LLC, Mount Pleasant, S.C., USA

**Environmental Technology Best Paper Award**

Established in 2005, this award is presented to the author of a technical paper, selected by the AIST Safety and Environmental Technology Division, and judged by the AIST Environmental Technology Committee to be the best technical paper submitted.

*Paper Title: “Technical and Environmental Benefits for Dry Atomization of Stainless Steel and Ladle Metallurgy Slags”*

**Janice Bolen** (top row, left), senior process engineer, pyrometallurgy, Hatch, Mississauga, Ont., Canada

**Sina Mostaghel** (top row, right), engineer, Hatch, Mississauga, Ont., Canada

**Lily So** (bottom row, left), process engineer, Hatch, Mississauga, Ont., Canada

**Santiago Faucher** (bottom row, right), chief technology officer, Ecomaister Co. Ltd.
II. Cokemaking and Ironmaking Technology Division

J.E. Johnson Jr. Award (AIME)
Established in 1921 from funds donated by Mrs. Margaret Hilles Johnson in memory of her husband, J.E. Johnson Jr., a prominent engineer and author in the field of iron blast furnace construction and practice. This award is conferred upon an individual 40 years of age or younger to encourage creative work in branches of the metallurgy or manufacture of pig iron.

Nancy Ward, process engineer, Stelco, Nanticoke, Ont., Canada

Thomas L. Joseph Award
Established in 1965 to honor a devoted teacher and scientist, Thomas L. Joseph, who contributed much in the fundamental studies of blast furnace reactions. This award is conferred for distinguished contributions in the fields of ironmaking and ore agglomeration technology including improvements in methods of selection and preparation of ore for use in the manufacture of iron and developments that lead to greater efficiency in the use of raw materials in ironmaking, and improvements in the design, operation and productivity of the blast furnace. The recipient must be over 40 years of age.

Maarten Geerdes, director, Geerdes Advies, Castricum, Netherlands
Josef S. Kapitan Award

This award was established in 1953 as the Journal of Metals Award by the Blast Furnace, Coke Oven and Raw Materials Committee of AIME. The name and award rules were changed in 1960 to the Ironmaking Conference Award, and again in 1982 to the Josef S. Kapitan Ironmaking Conference Award. In 2005, the award was divided into the Josef S. Kapitan Ironmaking Best Paper Award and the Josef S. Kapitan Cokemaking Best Paper Award. These awards are presented to the authors of cokemaking and ironmaking technical papers judged by the AIST Cokemaking and Ironmaking Technology Division to be the best submitted within this division, for the conference at which it was presented.

2018 Recipients for Ironmaking:

*Paper Title: “An Investigation of a Loss of Center Temperature Profile”*

Stuart J. Street (left), technical manager, ironmaking, AK Steel – Dearborn Works, Dearborn, Mich., USA

Elizabeth J. Worral (second from right), manager process metallurgy, AK Steel – Dearborn Works, Dearborn, Mich., USA

Bishara Sakkab (center), furnace manager, AK Steel – Dearborn Works, Dearborn, Mich., USA

Bashar Alzihery (second from right), maintenance supervisor, AK Steel – Dearborn Works, Dearborn, Mich., USA

Charles A. Copeland (right), process engineer, Ironmaking, AK Steel – Dearborn Works, Dearborn, Mich., USA

2018 Recipients for Cokemaking:

*Paper Title: “Preventing Unplanned Shutdowns of Byproduct Plant Equipment — Condition-Based Maintenance”*

Frank Sowa (left), head of cokemaking engineering, DMT GmbH & Co. KG, Germany

Stefan Stöcker (right), sales manager, condition monitoring, DMT GmbH & Co. KG, Germany

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III. Steelmaking Technology Division

Charles W. Briggs Award

Established in 1961 in honor of Charles W. Briggs, this award is presented to the author of a paper selected by the AIST Steelmaking Technology Division, and judged by the AIST Electric Steelmaking Technology Committee to be the best technical paper submitted.

**Paper Title:** “Improvements in Yield in an All-DRI-Fed EAF From Minimization of FeO Generation During Melting as Well as Post-Reduction of Fe From Residual Slag”

**Ruben Luie Gonzalez** (first row, left), steelmaking and continuous casting process engineering superintendent, ArcelorMittal Lázaro Cárdenas, Flat Carbon, Lázaro Cárdenas, Mich., Mexico

**Francisco López Acosta** (first row, right), operation steelmaking superintendent, ArcelorMittal Lázaro Cárdenas Flat Carbon, Lázaro Cárdenas, Mich., Mexico

**Michael L. Lowry** (second row, left), engineer, ArcelorMittal USA Research Laboratories, East Chicago, Ind., USA

**David M. Kundrat** (second row, right), adjunct professor, University of Cincinnati, Cincinnati, Ohio, USA

**Allen Wyatt** (third row, left), retired, Showa Denko Carbon, Charlotte, N.C., USA

**Jackson Kuntze** (third row, right), regional technical manager, SGL Canada Inc., Etobicoke, Ont., Canada

**Hagen Fuchs** (fourth row), senior manager, global customer projects, Carbon Division, Showa Denko Carbon GmbH, Wiesbaden, Germany

John Bell Award

Established in 2011 in honor of John Bell, a tireless innovator and educator, who was active in the exchange of concepts and ideas that advanced the knowledge and understanding of electric arc furnace steelmaking. John Bell, executive vice president and manager of operations at Severstal Columbus L.L.C., died on 24 September 2011. This award will be presented to a deserving individual who has made a major and significant contribution to the innovation, improvement and education of the engineering design and metallurgical process of electric arc furnace technology.

**Ben Bowman**, GrafTech International Ltd., Westlake, Ohio, USA
Charles H. Herty Jr. Award

Established in 1960, to honor Charles H. Herty Jr., known for his practical application of scientific principles and in honor of his ability to reduce scientific principles to practical steel plant use, which was his strongest attribute. This award is presented to the author of a paper, selected by the AIST Steelmaking Technology Division, and judged to be the best oxygen steelmaking technical paper submitted.

Paper Title: “Automation Enhancements to Improve Steel Production, Yield, Quality and Cost at the Burns Harbor Steel Producing Shop, ArcelorMittal USA”

James E. Bradley (top), division manager, Steel Producing, ArcelorMittal Burns Harbor, Chesterton, Ind., USA
Gregory Gabbert, process engineer, ArcelorMittal Burns Harbor, Chesterton, Ind., USA
Russell Mulligan, manager secondary metallurgy, ArcelorMittal Burns Harbor, Chesterton, Ind., USA
Garrett P. Flick (bottom), caster process manager and engineer, ArcelorMittal Burns Harbor, Chesterton, Ind., USA
David Sena, operations technology manager, Steel Producing, ArcelorMittal Burns Harbor, Chesterton, Ind., USA
Tyler T. Preall, engineer, ArcelorMittal Burns Harbor, Chesterton, Ind., USA

Specialty Alloy and Foundry Best Paper Award

Established in 2018, this award will recognize important contributions of members producing stainless steel, specialty alloy steel, and foundry operations. This award will be presented to the author(s) of the best technical paper selected by the AIST Specialty Alloy & Foundry Technology Committee.

Paper Title: “Application of EAF Wall Injectors for High-Alloy Steel Production”

Marko Jamnik (left), EAF chief engineer, SIJ Metal Ravne, Ravne na Koroškem, Slovenia
Luca Geno (second from left), technical account/quality department, Acciaierie Bertoli Safau (ABS), Cargnacco, Italy
Adam Partyka (center), chief process engineer, INTECO Melting & Casting Technologies, Bruck an der Mur, Austria
Stefano Miani (second from right), meltshop technology advisor, SM.elt (Stefano Miani - Engineering, Learning & Training), Udine, Italy
Christian A. Rahm (right), technical sales manager, INTECO PTI s.r.o., Zdar nad Sazavou, Czech Republic

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2018 President’s Award Breakfast + 19
IV. Refining and Casting Technology Division

Ladle and Secondary Refining Best Paper Award

Established in 2005, this award is presented to the author of a paper, selected by the AIST Refining and Casting Technology Division, and judged by the Ladle & Secondary Refining Technology Committee to be the best technical paper submitted.

Paper Title: “Inclusion Evolution and Removal in Ladle Refining”

Ronald J. O’Malley, F. Kenneth Iverson Chair, professor and director, Kent D. Peaslee Steel Manufacturing Research Center, Missouri University of Science and Technology, Rolla, Mo., USA

Continuous Casting Best Paper Award

Established in 2005, this award is presented to the author of a paper, selected by the AIST Refining and Casting Technology Division, and judged by the AIST Continuous Casting Technology Committee to be the best technical paper submitted.

Paper Title: “Know Your Level: Operational Benefits of Establishing Accurate Mold Level and Control”

Chase J. Ault (left), LMF caster metallurgist and mold and segment shop supervisor, Steel Dynamics Inc. – Flat Roll Group Butler Division, Butler, Ind., USA

Skyler Brandt (second from left), casting shift electrician, Steel Dynamics Inc. – Flat Roll Group Butler Division, Butler, Ind., USA

Charles H. Cappetta (center), casting electrical supervisor, Steel Dynamics Inc. – Flat Roll Group Butler Division, Butler, Ind., USA

Andrew J. Spencer (second from right), process metallurgist, Steel Dynamics Inc. – Flat Roll Group Butler Division, Butler, Ind., USA

Stephen deChaud (right), senior project manager fluxes, Metallurgica North America LP, Sugar Grove, Ill., USA
Kent D. Peaslee Award
Established in 2017 by the AIST Ladle & Secondary Refining Technology Committee to honor Kent D. Peaslee for his support of AIST, including serving as AIST president in 2012-2013, and in recognition of his tireless efforts to educate students at all levels in support of the steel industry, explain concepts to new engineers and promote university relations within the industry.

Paper Title: "Inclusion Evolution and Removal in Ladle Refining"
Ronald J. O'Malley, F. Kenneth Iverson Chair, professor and director, Kent D. Peaslee Steel Manufacturing Research Center, Missouri University of Science and Technology, Rolla, Mo., USA

V. Rolling and Processing Technology Division

Rolls Technology Best Paper Award
Established in 2007, this award is presented to the author of a paper, selected by the AIST Rolling and Processing Technology Division, and judged to be the best paper submitted to the Rolls Technology Committee.

Paper Title: "State-of-the-Art HSS Work Roll for Later Stands (F4-F7) in Hot Strip Mill Finishing Trains"
Nozamu Oda (top row, left), manager, R&D, Hitachi Metals Wakamatsu Ltd., Kitakyusyu, Japan
Yasunori Nozaki (top row, right), engineer, R&D, Hitachi Metals Wakamatsu Ltd., Kitakyusyu, Japan
Takumi Ohata (middle row, left), senior manager, engineering, Hitachi Metals Wakamatsu Ltd., Kitakyusyu, Japan
Paul C. Fleiner (middle row, right), president and chief executive officer, SinterMet LLC, Kittanning, Pa., USA
Tatsuya Tokunaga (bottom row, left), associate professor, Kyushu Institute of Technology, Kyushu, Japan
Hidenori Era (bottom row, right), professor, Kyushu Institute of Technology, Kyushu, Japan
Hot Sheet Rolling Best Paper Award
Established in 2018, this award will recognize the author(s) of the best technical paper presented within the AISTech sessions sponsored exclusively by the Hot Sheet Rolling Technology Committee, or jointly sponsored along with another AIST Technology Committee.

Paper Title: “New Approach to Avoid Biting Problems During Hot Rolling”
Mohamed Seied Essa Othman Hussein, level 2 automation manager, Flat Steel Division, EZDK, Alexandria, Egypt

VI. Metallurgy Technology Division

AIST Adolf Martens Memorial Steel Lecture
This award was established in 2010 to honor Adolf Martens, a pioneer in establishing structure-property relationships in steel and one of the first researchers to utilize optical microscopy to observe that hard steels had different features than soft steels at the microscale. The Adolf Martens Lecture recognizes the achievement of significant, broadly known technical accomplishments that have enabled important advances in processing and product application in the field of ferrous physical metallurgy, and have either provided dramatic contributions to the field or made a lifetime of important contributions to the field.

John G. Speer, John Henry Moore Professor of Physical Metallurgy and director, Advanced Steel Processing and Products Research Center, Colorado School of Mines, Golden, Colo., USA

Jerry Silver Award
Originally established in 1991, then re-established as an AIST award in 2005, this award was named in honor of Jerry Silver for his contributions to the field of ferrous physical and process metallurgy and in recognition of his leadership in the development of student affairs and programs for the Iron & Steel Society. The award is presented to the author of a paper, written by a student, selected by the AIST Metallurgy Technology Division, and judged by the AIST Metallurgy — Processing, Products & Applications Technology Committee to be the best technical paper submitted. One of the authors must be a student.

Paper Title: “Inclusion Size Distributions After Calcium Addition in LCAK Steels”
Mauro E. Ferreira, Carnegie Mellon University, Pittsburgh, Pa., USA
P. Chris Pistorius (left), POSCO Professor, Carnegie Mellon University, Pittsburgh, Pa., USA
Richard J. Fruehan (right), professor emeritus, College of Engineering, Carnegie Mellon University, Pittsburgh, Pa., USA
Gilbert R. Speich Award

Originally established in 1992 in honor of Gilbert R. Speich, for his contributions to the field of ferrous physical metallurgy, this award is presented to the author of a paper, selected by the AIST Metallurgy Technology Division, and judged by the AIST Metallurgy — Processing, Products & Applications Technology Committee to be the best physical metallurgy technical paper submitted.

Paper Title: “Quenching and Partitioning of Plate Steel: Thermal Gradients and Microstructure Development During Quenching”

Rachael A. Stewart (top row, left), M.A. student, Colorado School of Mines, Golden, Colo., USA

John G. Speer (top row, right), John Henry Moore Professor of Physical Metallurgy and director, Advanced Steel Processing and Products Research Center, Colorado School of Mines, Golden, Colo., USA

Brian G. Thomas (middle row, left), professor, Department of Mechanical Engineering, Colorado School of Mines, Golden, Colo., USA

Amy J. Clarke (middle row, right), associate professor, George S. Ansell Department of Metallurgical and Materials Engineering, Colorado School of Mines, Golden, Colo., USA

Emmanuel M. De Moor (bottom row), assistant professor, Advanced Steel Processing and Products Research Center, George S. Ansell Department of Metallurgical and Materials Engineering, Colorado School of Mines, Golden, Colo., USA

Richard J. Fruehan Award

Established in 2005 to honor Dr. Richard J. Fruehan, a devoted teacher and outstanding scientist whose dedication to his students, the association and the steel industry is well documented by his numerous technical publications and the number of his former students that now participate in the steel industry. This award is presented to the author of a paper selected by the AIST Metallurgy Technology Division, and judged by the AIST Metallurgy — Processing, Products & Applications Technology Committee to be the best process metallurgy technical paper submitted.

Paper Title: “Inclusion Evolution and Removal in Ladle Refining”

Ronald J. O’Malley, F. Kenneth Iverson Chair, professor and director, Kent D. Peasele Steel Manufacturing Research Center, Missouri University of Science and Technology, Rolla, Mo., USA

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VII. Energy and Control Technology Division

James Farrington Award

This award was established in 2005 to honor James Farrington, founder and first president of AISE, and his vision for iron and steel companies to join together, present papers, share mutual problems, and set standards for the improvement of electrical machinery and processes. This award is presented to the author of a paper, selected by the AIST Energy and Control Technology Division, and judged by the AIST Electrical Applications Technology Committee to be the best technical paper submitted.

Paper Title: “Steel Rolling Mill Achieves Target of Reduced Operational Costs via Cooling System Upgrade”

David B. Durocher (pictured), Global Mining, Metals and Minerals Manager, Eaton, Wilsonville, Ore., USA

Christopher Thompson, process automation engineer, ArcelorMittal Burns Harbor, Chesterton, Ind., USA

Computer Applications Best Paper Award

Established in 2005, this award is presented to the author of a paper, selected by the AIST Energy and Control Technology Division, and judged by the AIST Computer Applications Technology Committee to be the best technical paper submitted.

Paper Title: “Study of Spray-Cooling Control to Maintain Metallurgical Length During Speed Drop in Steel Continuous Casting”

Zhelin Chen (top row, left), Ph.D. candidate, University of Illinois at Urbana-Champaign, Urbana, Ill., USA

Joseph Bentsman (top row, right), professor, University of Illinois at Urbana-Champaign, Urbana, Ill., USA

Brian G. Thomas (bottom row), professor, Colorado School of Mines, Golden, Colo., USA

Akitoshi Matsui, researcher, JFE Steel Corp., Kuroshiki, Japan
Energy Achievement Award

The AIST Energy & Utilities Technology Committee has established the AIST Energy Achievement Award. The award recognizes an individual, group and/or organization that has implemented and achieved energy conservation or a significant improvement in energy-related productivity through the application of new technology, practices, and/or engineered methods in the iron- and steel-producing sector.

ArcelorMittal Dofasco G.P., Hamilton, Ont., Canada

“Implementation of High-Turbulence Roll Cooling at ArcelorMittal Dofasco’s Hot Strip Mill”

VIII. Plant Services and Reliability Technology Division

Project Excellence Award

Originally established as an AISE award, the AIST Project Excellence Award, through the AIST Project & Construction Management Technology Committee, was confirmed by AIST in 2006. Iron- and/or steel-producing companies are eligible to submit an entry for project design, construction, commissioning and/or equipment supply. Projects must be completed and in operation a sufficient length of time such that the achievement of technical objectives and economic benefits are measured and documented.

ArcelorMittal Indiana Harbor, East Chicago, Ind., USA

“No. 3 Steel Producing No. 2 Caster Revamp”

Reliability Achievement Award

The Reliability Achievement Award was established to recognize iron and steel producing companies for reliability improvements and achievements that can be demonstrated as unique or first in the industry. The award recognizes those organizations and the individuals within them that have developed, applied and proved a new practice, policy or procedure that significantly improves iron- and steelmaking reliability in North America.

Gold — ArcelorMittal Indiana Harbor, East Chicago, Ind., USA

“Minimization of Hot Mill Losses Originating From Downcoilers”

Working with a large set of historical data on a 80-inch hot strip mill, the ArcelorMittal team determined which loss-of-production incidents could be attributed to the downcoiler equipment, and established their root causes. Once average lifespans for the equipment could be satisfactorily established, upgrade projects brought the coil defect rate down to one-third of the original rate, in eight years, significantly adding a positive contribution to the annual operating budget in the multi-million-dollar range. This project was accomplished by a team of 10 mill individuals and three subcontractors.
Silver — Nucor-Yamato Steel Co., Blytheville, Ark., USA

"Improvements of Self-Maintaining Air Cleaners"

Experiencing the unwanted safety hazards of electrical arc flashes, and with conditions degrading to daily maintenance stoppages, this team addressed unwanted buildup of conductive dust in the EAF transformer vaults, which led to regular loss of production. With the new improvements, dust collectors can now be serviced without taking down the entire system. And, by using the technology of having static pressure fixed across the new filter arrangement, filter pulsing is providing a self-cleaning tool. So, the mill is experiencing much longer mean times between filter changes and the total elimination of daily vault cleaning. Success of this project has been converted to at least two other air filtration systems within the plant for improved living conditions of the workforce.

Refractory Systems Best Paper Award

Established in 2018, this award will recognize the author(s) of the best technical paper presented within the AISTech sessions sponsored exclusively by the Refractory Systems Technology Committee, or jointly sponsored along with another AIST Technology Committee.

Paper Title: “Long-Service-Life, Cold-Start Ladle Shroud”

Hiroyasu Niiituma, staff manager, technical section, Yumoto Plant, East Japan Works, Shinagawa Refractories Co. Ltd., Iwaki City, Fukushima, Japan

Takayuki Matsunaga, manager, flow control refractories R&D section, Research Department No. 3, Research Center, Shinagawa Refractories Co. Ltd., Imbe, Bizen City, Okayama, Japan

Koji Moriwaki, general manager, flow control refractories R&D section, Research Department No. 3, Research Center, Shinagawa Refractories Co. Ltd., Imbe, Bizen City, Okayama, Japan

Makoto Nakamura, board director of refractories, Ceratechno Co. Ltd., Kiiaki, Akashi City, Hyogo, Japan

IX. Material Movement and Transportation Technology Division

Crane Innovator of the Year Award

Established in 2007, this award is presented to the individual, selected by the AIST Cranes Technology Committee, who has promoted new technologies and communicated efficient operational and maintenance practices for the continuous improvement of heavy industrial cranes.

Paper Title: “The Use of Drones for Crane Runway Inspections”

Scott Sambuco, director — safety and asset integrity, Orbital Engineering Inc., Pittsburgh, Pa., USA

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2017 AIST MEMBER CHAPTER AWARDS

Established in 2008, these outstanding service awards are presented in appreciation of dedicated service to individual AIST Member Chapters. These awards were presented in the previous year.

Midwest Member Chapter
Mitch Day, strategic account director, Praxair Inc., East Chicago, Ind., USA

Northern Member Chapter
Jing Xu, EMT mechanical, ArcelorMittal Dofasco G.P., Grimsby, Ont., Canada

MEMBER CHAPTER ANNIVERSARIES

AIST is dedicated to acknowledging the rich history of its Member Chapters. A history is available for each chapter at AIST.org. The chapters highlighted below are celebrating anniversaries.

In recent years, AIST's first four Member Chapters have celebrated century milestones:
- Pittsburgh (1914): 104 years
- Midwest (1915): 103 years
- Northeastern Ohio (1916): 102 years
- Philadelphia (1916): 102 years

In 2018, the following three chapters are celebrating anniversaries:
- Detroit: 80 years
- Southwest: 50 years
- India: 10 years
2018 AIST PRESIDENTIAL CITATIONS

Established in 2004, this award recognizes individual members who have provided extraordinary service to the President or made outstanding contributions to the Association for Iron & Steel Technology throughout the President’s tenure. These awards will be presented on the evening of 8 May 2018.

In appreciation for his dedication to the steel industry in a career that has spanned more than 66 years. Throughout his distinguished career, he has shared his expertise with the steel industry through more than 45 published technical papers and books, including the 10-volume Hot Strip Mill Operations series. His dedication to improving rolling mills and providing solutions for unusual and difficult issues in the steel manufacturing process is unmatched.

David Blazevic, senior consultant, Hot Rolling Consultants Ltd., Price, Utah, USA

For his meritorious service as an AIST Foundation Trustee through active participation in and valuable contributions to current and new programs. His continuing leadership beyond his tenure as Trustee and championing of benchmarking initiatives will help to transform the Foundation scholarship winners of today into the active AIST members of tomorrow. His integrity, enthusiasm and selfless support remain a vital asset to the growth and sustainability of the AIST Foundation.

William H. Emling, vice president, steelmaking and casting division, SMS group, Pittsburgh, Pa., USA

For his dedication to the enrichment of the Association through leadership in the annual AISTech Town Hall Forum, representing a world-class event for executives to engage in meaningful conversation about issues vital to the global iron and steel industry. Koenig’s outstanding record of service as a Foundation Trustee, past Executive Committee member and past AIST President is matched only by his passion and unwavering zeal for the mission of AIST.

George J. Koenig, director — Global Business and Technology Development, Iron & Steel, Hatch Associates Consultants Inc., Pittsburgh, Pa., USA
AIME Honorary Member

Honorary membership, created in 1872 by AIME, is awarded in appreciation of outstanding service to the society and/or in recognition of distinguished scientific or engineering achievement in the fields embraced by the society.

For his outstanding contributions to the steel industry and his commitment to its future sustainability. Dr. Hansen's technical prowess and business acumen have led to commercial success for his company. His instrumental efforts to establish new programs as president of the A/ST Foundation have opened numerous pathways for the iron- and steelmakers of tomorrow to launch their careers in steel.

Steven S. Hansen, chief technology officer, SSAB Americas, Lisle, Ill., USA

Hansen is chief technology officer for SSAB Americas, a position he has held since 2007. In this role, he has overall responsibility for all technical support activities at SSAB’s North American steel plants and CTL lines, including quality assurance/quality control, applications engineering, continuous improvement, environmental, and research and development. After prior experience with Bethlehem Steel Corp., Hansen joined IPSCO in 2003 as director technical services, U.S. steel operations. In 2004, he was named corporate director technical services, responsible for all steel plant and tubular technical activities. When IPSCO was acquired by SSAB in July 2007, Hansen was named to his current position. He is a graduate of the Massachusetts Institute of Technology with B.S., M.S. and D.Sc. degrees in metallurgy and materials science. He is a member of AIST and a Fellow of ASM International.

For an exceptional steel industry career as both producer and supplier, and for his superlative commitment to the Association for Iron & Steel Technology, the AIST Foundation, and its predecessor organizations. His leadership nurtured AIST’s growth and solidified the AIST Foundation’s position as the premier non-profit organization encouraging the next generation of steel industry professionals.

Thomas J. Russo, general manager, CMC-MMFX Technologies, Kingsville, Md., USA

Russo is general manager of CMC-MMFX Technologies and is responsible for the integration and growth of the ChromX product line into CMC production and rebar fabrication businesses. Prior to the acquisition by CMC in 2017, Russo was chief executive officer (CEO) of MMFX.

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Technologies in Irvine, Calif., USA. With more than 40 years of experience in the steel industry, his primary focus as CEO was driving the expansion of the industrial applications for MMFX's unique steel nanotechnology, and growing the market position of its uncoated corrosion-resistant and high-strength reinforcing steel products. Russo began his career in 1977 at Bethlehem Steel's Sparrows Point rod and wire mill as a management trainee. During his time there, he held various roles in engineering, operations and senior management across several different facility owners which included International Steel Group (ISG) and Arcelor Mittal. He retired as president and general manager of the Sparrows Point facility in 2010 while it was under the ownership of OAO Severstal. Prior to joining MMFX Technologies, Russo served as the president and CEO of Trusscon Inc., a consulting company focused on the steel manufacturing and processing industries. There he led efforts to assist major global companies with improvements in a variety of areas, including sales strategy, product development and evaluation of industry opportunities. He holds a B.S. degree in mechanical engineering from the New Jersey Institute of Technology. He has seven patents and has authored numerous technical papers related to the steel industry.

AIME Honorary Members

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
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<tbody>
<tr>
<td>2017</td>
<td>William P. Breedlove</td>
</tr>
<tr>
<td>2017</td>
<td>Andrew S. Harshaw</td>
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<tr>
<td>2016</td>
<td>Dale E. Heinz</td>
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<td>2015</td>
<td>Randy C. Skagen</td>
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<tr>
<td>2014</td>
<td>Roderick I.L. Guthrie</td>
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<tr>
<td>2014</td>
<td>William P. Barker</td>
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<tr>
<th>Year</th>
<th>Name</th>
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<tbody>
<tr>
<td>2013</td>
<td>Gerald R. Heffernan</td>
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<td>2013</td>
<td>Indira Samarasekera</td>
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<tr>
<td>2012</td>
<td>Ian Sadler</td>
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<td>2011</td>
<td>Theodore F. Lyon</td>
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<tr>
<td>2010</td>
<td>Robert G.H. Lee</td>
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<tr>
<td>2009</td>
<td>Alan W. Cramb</td>
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<td>2008</td>
<td>David K. Matlock</td>
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<tbody>
<tr>
<td>2007</td>
<td>Richard J. Fruehan</td>
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<tr>
<td>2006</td>
<td>Leonard G. Nelson</td>
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<td>1992</td>
<td>Howard N. Hubbard</td>
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<td>1992</td>
<td>Alexander McLean</td>
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<tr>
<td>1990</td>
<td>G. William Knepleshield</td>
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<tr>
<td>1988</td>
<td>Norman T. Mills</td>
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AIME Rossiter W. Raymond Memorial Award

The Rossiter W. Raymond Memorial Award was established in 1945 and recognizes the best paper published by AIME in a given period where the lead author is a member under 35 years of age. This award honors one of AIME’s founders who served as president and secretary and was an Honorary Member. AIST will select and present this award every four years, alternating with its sister organizations within AIME.

Paper Title: “Wealth of Knowledge Frozen in Time: Innovative Breakout Shell Autopsy”

Jackie Leung (left), senior researcher, ArcelorMittal Dofasco G.P., Hamilton, Ont., Canada

Joydeep Sengupta (right), principal researcher, ArcelorMittal Dofasco G.P., Hamilton, Ont., Canada
2018 AIST AWARDS AND RECOGNITION PROGRAM COMMITTEE

The committee is comprised of Technology Division representatives to the Board of Directors, and is chaired by the first Officer-at-Large of the Executive Committee.

Executive Committee Liaison and Chair
Steven J. Henderson, Commercial Metals Company

Safety & Environment Technology Division
Dejan Zrelec, Tenova Goodfellow Inc.

Cokemaking & Ironmaking Technology Division
Charles A. Copeland, AK Steel – Dearborn Works

Steelmaking Technology Division
James M. Lash, U. S. Steel – Great Lakes Works

Refining & Casting Technology Division
Sunday O. Abraham, SSAB Iowa Inc.

Rolling & Processing Technology Division
Sabyasachi Bandypadhyay, Big River Steel

Metallurgy Technology Division
Kester D. Clarke, Colorado School of Mines

Plant Services & Reliability Technology Division
Cory F. Mecham, Falk RENEW

Material Movement & Transportation Technology Division
Damon E. Burrow, Nucor Steel–Texas

Northeastern Ohio Member Chapter
Brad S. Garwacki, Globex Corp.

Pittsburgh Member Chapter
Bernie J. Marrese, Primetals Technologies USA LLC

Non-NAFTA Member Chapters
Paul James O’Kane, Liberty OneSteel

Northern Member Chapter
Wayne S. Thompson, Lifting Gear Hire Corp.

Ohio Valley Member Chapter
Grant A. Thomas, AK Steel Research & Innovation Center

Smaller Member Chapters
Adam Z. Horrex, Nucor Steel Kankakee Inc.

Southeast Member Chapter
Kyle J. Lysitt, Nucor Steel–Hertford County

2019 AIST Board of Directors Awards – Call for Nominations

Nominations for the 2019 AIST Board of Directors Awards are now being accepted. These awards will be presented during the President’s Award Breakfast at AISTech 2019 in Pittsburgh, Pa., USA. Additional information will be included in Iron & Steel Technology magazine June through November.

Nominations deadline: 30 November 2018.
Visit AIST.org for more information.
# Outstanding Chapter Growth Award

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<thead>
<tr>
<th>Year</th>
<th>Award</th>
<th>Recipients</th>
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<tbody>
<tr>
<td>2002</td>
<td>Ohio Valley District Section (percentage increase) and Niagara District Section (numerical increase)</td>
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<tr>
<td>2003</td>
<td>Southern California District Section (percentage increase) and Chicago District Section (numerical increase)</td>
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<tr>
<td>2006</td>
<td>Baltimore Member Chapter (percentage increase) and Southeast Member Chapter (numerical increase)</td>
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<td>2007</td>
<td>St. Louis Member Chapter (percentage increase) and Midwest Member Chapter (numerical increase)</td>
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<td>2008</td>
<td>San Francisco Member Chapter (percentage increase) and Midwest Member Chapter (percentage increase)</td>
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<td>2009</td>
<td>Birmingham Member Chapter (percentage increase) and Pittsburgh Member Chapter (numerical increase)</td>
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<tr>
<td>2010</td>
<td>India Member Chapter (percentage increase and numerical increase)</td>
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<tr>
<td>2011</td>
<td>Mexico Member Chapter (percentage increase) and Detroit Member Chapter (numerical increase)</td>
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<tr>
<td>2012</td>
<td>India Member Chapter (both percentage increase and numerical increase)</td>
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<tr>
<td>2013</td>
<td>Southern California Member Chapter (percentage increase) and Southeast Member Chapter (numerical increase)</td>
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<tr>
<td>2014</td>
<td>India Member Chapter (both percentage increase and numerical increase)</td>
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<td>Korea Member Chapter and Northwest Member Chapter (percentage growth), and India Member Chapter (both percentage and numerical increase)</td>
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<td>Australia Member Chapter and India Member Chapter (percentage growth), and Korea Member Chapter and Northeastern Ohio Member Chapter (numerical growth)</td>
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<td>San Francisco Member Chapter and Mexico Member Chapter (percentage growth), and Pittsburgh Member Chapter and Midwest Member Chapter (percentage growth)</td>
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# Hunt-Kelly Outstanding Paper Award (AIME) — First Place

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<th>Year</th>
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<tr>
<td>2006</td>
<td>H. Yin — &quot;Thermodynamics for High-Al Advanced High-Strength Steels&quot;</td>
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<td>2007</td>
<td>C. Scott, S. Allain, N. Guettion — &quot;The Development of a New Fe-Mn-C Austenitic Steel for Automotive Applications&quot;</td>
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<td>2009</td>
<td>S.S. Sun, D. Liao, N.K. Pyke, K.R. Boylan, G. Wallace — &quot;Development of an Offgas/Model Technology to Replace Sulphur Operation for KORIM Endpoint Carbon Control at Dofasco&quot;</td>
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<td>2010</td>
<td>R.A.O. Fortes, H. Matsaura, R.J. Fruehan — &quot;Decarburization and Slag Formation Model for Electric Arc Furnace&quot;</td>
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<td>2013</td>
<td>P. Kaushik, H. Yin, H.M. Pielet, M.L. Lowry — &quot;How to Evaluate a Process for Clean Steelsmaking and Quality Control&quot;</td>
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<td>2014</td>
<td>D. Roy, P.G. Pistorius, R.J. Fruehan — &quot;The Effect of Silicon on the Desulfurization of The Killed Steels&quot;</td>
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<td>2015</td>
<td>S.D. Chung, J. Sengupta, M. Alfar-Alaie — &quot;Stopper Rod Clipping Trials at ArcelorMittal Dofasco’s No. 1 Continuous Caster&quot;</td>
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<td>2017</td>
<td>T. Okosun, S.J. Stroet, Y. Chen, J. Zhao, B. Wu, C.Q. Zhou — &quot;Investigation of Co-Injection of Natural Gas and Pulverized Coal in a Blast Furnace&quot;</td>
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<td>W.O. Philbrook, R.H. Spitzer, R.S. Manning</td>
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<td>P. Kozakewitch</td>
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<td>L. Backer, Paul Remy Castelli</td>
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<td>J. Farrel, D.C. Hilly</td>
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<td>2004</td>
<td>B.G. Thomas, O. Yuan, P. Vanka, &quot;Turbulent Flow and Particle Motion in the Continuous Slab Casting Mold&quot;</td>
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### Kelly Recipients — First Place

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<td>1949</td>
<td>George S. Mican — &quot;Deformation in Rolling&quot;</td>
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<td>E.T. Long — &quot;Automatic Self Centering Rolls and Pulleys&quot;</td>
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<td>Louis Moses — &quot;A Report of Rolling Experiences&quot;</td>
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<td>J.J. Holmsjö — &quot;Investigation of the Piercing Process by Means of Model Wax Billets&quot;</td>
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<td>1953</td>
<td>A.J. Krombholz — &quot;Recovery of Tin From Scrap Tinplate&quot;</td>
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<td>George S. Mican — &quot;A New Theory of Hot Rolling&quot;</td>
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<td>Harry S. Spitz — &quot;Water Processing at Fairless Works&quot;</td>
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<td>A.M. Cameron — &quot;Basic Formulas for Roll Design and Rolling of Alloy Steels&quot;</td>
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<td>J.J. Murray, Thomas C. Graham — &quot;The Design of Mill Buildings&quot;</td>
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<td>Carl F. Bestent — &quot;Techniques in Rebuilding a Blast Furnace&quot;</td>
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<td>Louis Moses — &quot;Mathematical Aids to Determine Spread and Reduction Rates in Rolling&quot;</td>
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<td>Dr. A.H. El-Waziri — &quot;The Transient Temperature Distribution Within Slabs Heated in Continuous Furnaces&quot;</td>
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<td>1962</td>
<td>Stephen Valada — &quot;Obtaining 1600°F Blast From Existing Stoves&quot;</td>
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<td>D.H. Miller, Dr. T.E. Dancy — &quot;Continuous Casting — Past, Present and Future&quot;</td>
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<td>R.D. Hinshon — &quot;A Look at Engineering in Industry&quot;</td>
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<td>Tatsuo Yamada — &quot;Three-Bell Blast Furnace Operation in Japan&quot;</td>
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<td>William Wargo — &quot;Accelerated Cooling After Coi Annealing&quot;</td>
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<td>W.L. Roberts — &quot;Thermal Considerations in Tandem Cold Rolling Operations&quot;</td>
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<td>John W. Traub Jr., Ronald M. Hilmer — &quot;Alist Wood's BOC Shop&quot;</td>
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<td>J.W. Hinika, T.W. Miller — &quot;Temperature Loss in Liquid Steel refractory Systems&quot;</td>
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<td>J.H. Richards, J.N. Homaj — &quot;U.S. Steel Corp.'s First Ingot-Free Electric Arc Steel Melting Shop&quot;</td>
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<td>1971</td>
<td>Pierre J. Leroy — &quot;Oxygen Bowing by the JWS Process&quot;</td>
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<td>Edmund L. Mangun, Ronald J. Fradenack — &quot;Ingot Weighing to Improve Weight Control and Plant Yield&quot;</td>
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Benjamin F. Fairless Award (AIME)

1955 Stewart J. Cort  
1956 Stephen M. Jenks  
1957 Leo F. Reinhart  
1958 Hjalmar W. Johnson  
1959 James Lester Macthe  
1960 Charles McElroy White  
1961 Thomas E. Millspaugh  
1962 Harold M. Griffith  
1963 John Chipman  
1964 Thomas L. Joseph  
1965 Edward B. Hanley  
1966 Robert Durrer  
1967 Alexander L. Field  
1968 Herbert W. Graham  
1969 James Bliss Austin  
1970 Edmund F. Martin  
1971 Frederick G. Jaacks  
1972 Karl Georg Spreth  
1973 John H. Chesiers  
1974 Theodore F. Ott  
1975 Michael Tenenbaum  
1976 David S. Holbrook  
1977 Edgar B. Speer  
1978 Dennis J. Carney  
1979 C. W. Verty Jr.  
1980 J. Peter Gordon  
1981 Howard C. Beaver Jr.  
1982 George A. Stinson  
1983 Gerald R. Heffernan  
1984 John Macnamara  
1985 Frank W. Luenens  
1986 Frank H. Sherman  
1987 Robert E. Bori  
1988 Gordon E. Forward  
1989 Richard P. Simmons  
1990 John G. Redline  
1991 George A. Ferris  
1992 Robert G. H. Lee  
1993 Guy Savard  
1994 David H. Hoag  
1995 Thomas G. Graham  
1996 Thomas J. Usher  
1997 John H. McConnell  
1998 J. Keith Brinncombe  
1999 Richard J. Fruehan  
2000 Ethom T. Uraloglu  
2001 Roderick L. Guthrie  
2002 Malvin E. Nickel  
2003 Howard K. Warner  
2004 Alan W. Cramb  
2005 Olga Ostrouski  
2006 Allan Smillie  
2007 Steven University.com — Andrew Green, David Naylor, Ruth Hambleton, Ian Christmas  
2008 Eugene B. Pretorius  
2009 Anthony J. DaArdo  
2010 Leonard G. Nelson  
2011 Ronald J. O'Malley  
2012 Bruce L. Brammell  
2013 Johannes Schade  
2014 Lawrence J. Howard  
2015 George Krauss  
2016 George F. Vander Voort  
2017 George F. Vander Voort  

John F. Elliott Lectureship

1991 T. Ray Meadowcroft  
1992 Richard J. Fruehan  
1993 Gordon E. Forward  
1994 George R. St. Pierre  
1995 John R. Stubbles  
1996 Alex McLean  
1997 G.J.W. Kor  
1998 Geoffrey R. Belton  
1999 John C. d'Entremont  
2000 David R. Gaskell  
2001 Nobuc Sano  
2002 Alan W. Cramb  
2003 Roderick L. Guthrie  
2004 Dennis J. Carney  
2005 Henri Gaye  
2006 Pierre H. Dauby  
2007 Yasutaka Iguchi  
2008 Gordon A. Iorns  
2009 Norbert Bannenberg  
2010 David G.C. Robertson  
2011 Sridhar Soetharaman  
2012 Lauri E.K. Holappa  
2013 Geoffrey A. Brooks  
2014 Arthur D. Pelton  
2015 Richard C. Sussman  
2016 P. Chris Pistorius  
2017 Donald R. Sadoway  

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1924 Albert Sauveur 1953 Joseph Winlock 1982 Michael Korchinskyn
1925 John A. Mathews 1954 C.D. King 1984 Frank W. Luerssen
1929 John Howe Hall 1958 Maxwell Genauer 1988 Alex McLean
1930 Zay Jeffries 1959 Clarence E. Sims 1989 Toshihiko Enmi
1932 Edgar C. Blair 1961 Lawrence S. Darken 1991 William E. Dennis
1934 F.N. Speller 1963 Lawrence S. Darken 1993 J. Keith Brimacombe
1938 Frederick M. Backet 1967 Gerhard J. Dake 1997 John R. Stubbles
1939 H.W. Gillot 1968 Bernard Trantini 1998 Wei-Kao Lu
1941 Alfred V. deForest 1970 James B. Austin 2000 Roderick I.L. Guthrie
1948 Robert B. Soeman 1977 Torence E. Denby 2007 Millet L. Wei
1950 Francis B. Foley 1979 Julian Szekely 2009 J. Kevin Cotchen
1952 Augustus B. Kinzel 1981 Tatsuki T. Fuku

J. Keith Brimacombe Memorial Lecture

2001 Brian G. Thomas 2008 Kent D. Peaslee 2016 Peter D. Hodgson
2002 Alex McLean 2010 Chenn Q. Zhou 2010 Chenn Q. Zhou
2004 Richard J. Fruehan 2012 Alan W. Crumbl

Tadeusz Sendzimir Memorial Medal

1990 Irving J. Rossi 2001 Gerhard Fuchs 2011 J. Kevin Cotchen
1993 Melvin J. Greaves 2002 Paul S. Morgan 2012 James T. Shapland
1996 Donald J. Fapiiano 2007 Millet L. Wei 2014 John G. Speer
1997 William Smith 2008 Hisahiko Fukase 2015 Frank L. Kemeny
2000 Vladimir B. Ginzburg 2010 Gerald R. Heffeman

Distinguished Member and Fellow Award

1975 James B. Austin 1975 F. John McMulkin 1976 Lawrence S. Darken
1975 Thomas L. Joseph Sr. 1976 Donald J. Blickwede 1976 Edgar B. Speer

36 • AIStech 2018
### Steelmaker of the Year Award

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### William T. Hogan, S.J. Memorial Lecture

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PAST PRESIDENTS

AISE Presidents

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ISS Presidents

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A large and growing membership is the heart of the Association for Iron & Steel Technology. AIST takes this opportunity to recognize and thank our Life Members for their years of loyalty and ongoing commitment to the steel industry.

Each year, AIST publishes a roster of individuals reaching significant anniversaries of membership, beginning with 10 consecutive years and continuing with each successive 5-year anniversary. Here, AIST recognizes members reaching these milestone anniversaries in 2017. Due to space constraints, only those members celebrating an anniversary milestone in 2017 are identified.

50+ Consecutive Years of Membership

Jagdish C. Agarwal  James L. Emery  Timothy Lewis  S.D. Sanders
L. James Anderson  Richard G. Foley  Claude H.P. Lupis  Nobuo Sano
James P. Baker  L. James Anderson  Leon A. Luyckx  Edward J. Schaming
L. Jean Anderson  Elmer G. Freiheit  Joseph N. Lynch  William A. Schmucker
Kenneth E. Blazek  LeRoy G. Goehring  Raymond M. Mader  Clyde P. Seig
Gary T. Blazevich  Charles D. Green  Lawrence G. Maloney  Herbert D. Sellers Sr.
Gary B. Bowman  James F. Hamilton  Alexander McLean  Paul R. Severnich
John C. Campbell  John G. Harhai  Keith H. Morelock  Bruce M. Shields
Richard J. Choulet  Narwani Harman  Royston P. Morgan  James C. Simmons
Beatrice John A.  Gordon H. Geiger  William J. Nelson  David B. Simpson
John R. Glazer  John R. Gibson  Gordon R. Oliver  Carl E. Glaser
Richard B. Berto  Charles D. Green  K.G. Pederson  Surjit Singh
William H. Betts  Carl E. Glaser  Robert D. Perlke  Charles E. Slater
Kenneth E. Blazek  Thomas C. Graham Sr.  Ronald J. Petroski  Ralph M. Smalter
Shank R. Balajee  James F. Hamilton  Howard M. Pfelet  Russell Solomon III
Beatrice John A.  Charles D. Green  Raymond L. Polick  Sigurd M. Sorensen
William H. Betts  James E. Maroney  Richard L. Reddy  Joseph L. Stein
Shank R. Balajee  Charles D. Green  Michel Rigaud  Russell E. Swanson
John A. Beatrice  James F. Hamilton  Norman A. Robins  Johannes M. Uys
John R. Gibson  Charles D. Green  Mark S. Rodney  Brooks E. Weingart
Richard B. Berto  James F. Hamilton  Gerald J. Roe  David A. Withrow
John A. Beatrice  James F. Hamilton  Walter D. Sadowski  Michael Wyke
Richard B. Berto  James F. Hamilton  Albert R. Zeit

45 Consecutive Years of Membership

Steven A. Bachenheimer  Thomas A. Danziczek  Charles E. Murphrey  Fred J. Stover
William P. Barker  Hani Henein  Donald N. Najjock  David P. Winick
Michael F. Bigowsky  Steven G. Janslo  Paul E. Nilles  George L. Yager
Charles D. Blazevich  Jack-Klein  Takashi T. Ohtani  Robert A. Yohe
John T. Bowen  Theodore J. Lecoz  Robert J. Pasquarelli  Sundararaja V.
Paul J. Diffenbach  Roy C. Martin  Kent C. Richards  Subramanian
Richard F. Draus  Robert G. Lee  Michel Rigaud  James E. Trunzo

40 Consecutive Years of Membership

David G. Barko  Kenneth J. Homma  Richard E. O'Hara  Sundararaj V.
Richard A. Black  David E. Hunt  Peter D. Oten  Subramanian
Richard J. Breidowski  John A. Jordan Sr.  L.W. Palmer  James E. Trunzo
Thomas H. Cipich  James J. Kaczmarek  Joseph Patakli  Rhett J. Walls
Richard M. Dippolito  Marc Liebman  Madhukar G. Ranade  Richard C. Shindle
William W. Ebner  Donald S. Masuda  Richard C. Shindle  Timothy A. Shuman
David A. Fournie  Steven R. Meyer  Hans H. Stüssy  Hare H. Stüssy
Claude Gentaz  Russell A. Morkowicz 
### 35 Consecutive Years of Membership

- Richard S. Baum
- Robert D. Bokan
- Rob Boom
- Francis T. Cerceone
- Dana A. Dunholtzer
- Thomas P. Ference
- Raymond V. F. Flynn
- Scott S. Gonsawski
- Tim D. McMaster
- Gareth D. Mitchell
- Ernest G. Mueller
- Lorn D. Newton
- Mark A. Olean
- Roy L. Patterson
- Drew C. Pavlick
- Gary W. Riggs
- Hans J. Sack
- Ronaldo Santos Sampaio
- Berndt Schlofer
- Thomas E. Shellenberger
- Zygmuntt Stepien
- William T. Wood II
- Sam C. Yockey

### 30 Consecutive Years of Membership

- Michael L. Alexander
- Edwin W. Anderson
- Harold D. Baker Jr.
- Daniel J. Banczak
- Richard Béchard
- Robert S. Bogan
- Lorenzo Bonoma
- David K. Brand
- Gary L. Bresson
- Mark Brun
- Derek J. Buckley
- Kevin L. Byars
- Bred C. Carlson
- Mark A. Connor
- Guy M. Dentler
- Michael F. Dolder
- Bruce C. Erhardt
- James P. English
- Charles D. Feher
- William F. Flanagan
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- Jean Paul Gaillet
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- Michael A. Gratson
- Ronald J. Gratton
- Mike C. Grayson
- Robert E. Greuter
- Andzej Q. Groch
- Dale T. Guidry
- John D. Guydand
- James C. Hays
- Benjamin P. Heck
- David C. Herrmann
- Robert W. Hoffer
- Gary D. Hoffman
- Gary C. Houx
- Robert C. Jackie
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- Mark A. Koenig
- Leonard C. Kossetka
- Keith M. Kunz
- Carmen J. Laneve
- James C. Lemon
- David J. Lesniak
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- Rama Ballav Mahapatra
- Larry A. Marks
- Joseph F. Maxim
- John H. Michael Jr.
- Stephen D. Mis
- Joseph B. Molokach Jr.
- Patrick L. Monnet
- James D. Palmer Ill
- Robert E. Perkins
- David M. Perri
- Bonnie P. Poulsen
- Jonny Prenter
- Kenneth R. Prior
- Larry V. Rich
- David J. Rintoul
- Key Robertson
- Norman Roy
- Thomas J. Russo
- Veena Sahajwalia
- Kurt J. Sander
- John E. Schlofer
- Gerard T. Schreiber
- Kenneth L. Sherman
- Rodney P. Simpson
- Michael B. Speranza
- Andrew J. Szabo
- Edward F. Thomas Jr.
- Norman D. Thomas
- David A. Versel
- William R. Wagschaff
- John J. Wallace
- John A. Walsh Jr.
- Steven J. Yockey
- Michael A. Zollhart
- Thomas N. Zendzian

### 25 Consecutive Years of Membership

- Gary A. Amendola
- Brett Argirokas
- James M. Barker
- John P. Barney
- Rod Barr
- David Berg
- Walter Blejde
- Cynthia A. Bogt
- Larry L. Boyd
- Christopher J. Burns
- William W. Burns Jr.
- Christopher J. Carr
- Thomas J. Carr
- Bryan A. Chiappelli
- Michael N. Chin
- Daniel Coker
- Robert G. Crooks
- Doug A. Dunworth
- Dana L. Everett
- R. Joel Falak
- Anthony W. Faulds
- David A. Frease
- Vin Haire
- Thomas A. Glassbrenner
- Francis W. Griggs
- Joseph J. Hanley
- Wade C. Hamilton III
- James E. Heilman
- Edward Hopkins
- Heliocho Isao
- David W. Jones
- Francis J. Kosmaczcyk
- Adam A. Kilat
- Thomas K. Kane
- Michael A. Kinney
- Joseph M. Kiss
- Michael C. Kozmainski
- John L. Kuzdel
- Dev Earle Lemster
- Eduardo Leyva
- John H. Lorenz
- Theodore F. Lyon
- Thomas J. Merlowe
- John A. Miller
- Edward J. Mitchenberg
- Godfrey M. O. Molynieux
- Damatico Moschella
- Lloyd F. Nelson
- Juergen P. Neugebauer
- Sverker Olsund
- Sean Osburn
- Andrew S. Poltorak
- John O. Reddifie
- Robert E. Redpath
- Ryan K. Robinson
- David I. Ruby
- John C. Russ
- Joseph P. Ryan
- William F. Schierenbeck
- William K. Schlichting
- Charles I. Sheets
- Kevin M. Skoro
- Wade H. Stull
- Ernest W. Systron
- Rachel L. Tannen
- Eric P. Thokar
- Kenneth W. Weber
- Ron A. Widup
- James M. Wilston
- Eric Yaszemski
- Patrick L. Yoder
- Masafumi Zeze

### 20 Consecutive Years of Membership

- Charles Abbott
- Sami T. Achkar
- Robert L. Albert
- William R. Allan
- Alfred Avakian
- Mitchell J. Bachuchin
- John R. Beatty
- Dan J. Back
- Alex M. Benyo
- Christian Bernhard
- Rainer Bertling
- Mark Blankorrau
- Timothy E. Bradley
- Brian W. Braha
- David L. Callis
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- Chad Cathcart
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