# 2007 and 2008

# Technology Division–level Awards

*In addition to the AIST association-level awards, each of the 11 Technology Divisions is in the process of establishing three awards, to be presented at various AIST venues, including a technical session at AISTech or MS&T, an Operating Committee meeting or specialty training conference, or a Member Chapter event. Following are the latest recipients for each award.*

## Iron Producing Technology Division

### Thomas L. Joseph Award

(awarded in even-numbered years)

*Established in 1965 to honor 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.*

- **2008 Recipient: Ronald N. Molenaar,** ironmaker, Corus Strip Products IJmuiden, IJmuiden, The Netherlands

*The Thomas L. Joseph Award was presented to Ronald N. Molenaar.*

### J.E. Johnson Jr. Award

*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.*

- **2008 Recipient: John D'Alessio,** ironmaking technical manager, U. S. Steel Canada Inc., Hamilton, Ont., Canada

### 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 Iron Producing Technology Division to be the best submitted within this division, for the conference at which they were presented.*

- **2008 Recipients for Ironmaking** for their paper entitled, "Experimental Probing of Temperatures in Blast Furnace Tuyeres":

*Recipients of the Josef S. Kapitan Award for Ironmaking (left to right): Otavio Fortini, Christopher Rabold and Ernesto Serrano.*

*Molenaar*

*D'Alessio*

*Rabold*

*Serrano*

*Fortini*


Kato

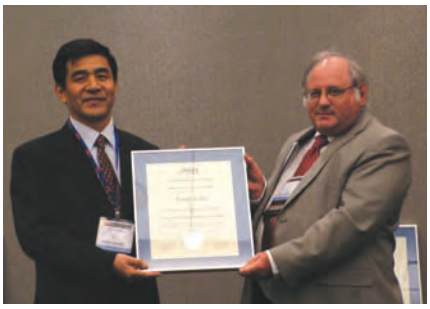

Nomura


Arima

- **Christopher J. Rabold,** manager, BFET, United States Steel–Edgar Thomson Plant, Braddock, Pa., USA
- **Ernesto J. Serrano,** technical manager, United States Steel Research and Technology Center, Munhall, Pa., USA
- **Otavio M. Fortini,** senior process engineer, Alcoa Technical Center, Alcoa Center, Pa., USA

• **2008 Recipients for Cokemaking** for their paper entitled, "Effect of Coal Pre-treating Technology on Coke Strength":

- **Kenji Kato,** chief researcher, Ironmaking R&D Div., Environment & Process Technology Center, Nippon Steel Corp., Chiba, Japan
- **Seiji Nomura,** chief researcher, Ironmaking R&D Division, Environment & Process Technology Center, Nippon Steel Corp., Chiba, Japan


*Kenji Kato received the Josef S. Kapitan Award for Cokemaking.*

- **Takashi Arima,** senior researcher, Ironmaking R&D Division, Environment & Process Technology Center, Nippon Steel Corp., Chiba, Japan
- **Masaaki Naito,** general manager, Ironmaking R&D Division, Environment & Process Technology Center, Nippon Steel Corporation, Chiba, Japan
- **Hiroshi Uematsu,** consultant general manager, Technical Administration & Planning Div., Nippon Steel Corp. Tokyo, Japan

## Electric Steelmaking Technology Division

### Charles W. Briggs Award

*Established in 1961 in honor of Charles W. Briggs, this award is presented to the authors of a technical paper judged by the Electric Steelmaking Technology Division to be the best submitted within the Electric Steelmaking Operating Committee.*

• **2008 Recipients** for their paper entitled, "Developments Towards an Intelligent Electric Arc Furnace at CMC Texas Using Goodfellow EFSOP® Technology":

- **Joseph Maiolo,** manager, technology and development, Tenova Goodfellow Inc., Mississauga, Ont., Canada
- **Mohamed Boutazakhti,** research and development engineering, Tenova Goodfellow Inc., Mississauga, Ont., Canada
- **Cheng Wu Li,** process simulation and controls engineer, Tenova Goodfellow Inc., Mississauga, Ont., Canada
- **Chris Williams,** operations manager, CMC Steel – Arizona, Mesa, Ariz., USA


*Joseph Maiolo received the Charles W. Briggs Award.*

## Oxygen Steelmaking Technology Division

### Charles Herty Award for Best Paper

*Established on Sept. 24, 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 authors of an oxygen steelmaking technical paper judged by the AIST Oxygen Steelmaking Technology Division to be the best submitted within this division.*


Naito


Maiolo


Boutazakhti


Li


Williams


Bruckhaus


Lachmund


Blazek


Lanzi


Gano


Kellogg


Irons

- **2008 Recipients** for their paper entitled, "Stirring Strategies to Meet Highest Metallurgical Requirements in the BOF Process":
  - **Ralf Bruckhaus,** general manager—steel plant, AG der Dillinger Hüttenwerke, Dillingen, Germany
  - **Helmut Lachmund,** manager, steelmaking research and development, AG der Dillinger Hüttenwerke, Dillingen, Germany

*Helmut Lachmund (left) and Ralf Bruckhaus (right) received the Charles Herty Award for Best Paper.*

## Continuous Casting Technology Division

### Continous Casting Award for Best Paper

*Established in 2005, this award is presented to the authors of a continuous casting technical paper judged to be the best of class by the AIST Continuous Casting Technology Division.*

- **2007 Recipients** for their paper entitled, "Calculation of the Peritectic Range for Steel Alloys":
  - **Kenneth E. Blazek,** principal research engineer, ArcelorMittal Global Research and Development Laboratory USA, East Chicago, Ind., USA
  - **Oscar Lanzi III,** staff research engineer, ArcelorMittal Global Research and Development Laboratory USA, East Chicago, Ind., USA
  - **Phil L. Gano,** practice engineer primary, ArcelorMittal Burns Harbor, Burns Harbor, Ind., USA
  - **Dale L. Kellogg,** product control engineer, ArcelorMittal Burns Harbor, Burns Harbor, Ind., USA

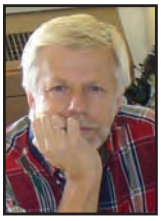
*Oscar Lanzi (left) and Kenneth Blazek (right) received the Continuous Casting Award for Best Paper.*

### Ladle and Secondary Refining Award for Best Paper

*Established in 2005, this award is presented to the authors of a ladle and secondary refining technical paper judged to be the best of class by the AIST Continuous Casting Technology Division.*

- **2007 Recipients** for their paper entitled, "Monitoring Ladle Eye Dynamics Using Multivariate Statistical Methods":
  - **Kevin J. Graham,** Steel Research Centre, Department of Materials Science and Engineering, McMaster University, Hamilton, Ont., Canada
  - **Krishnakumar Krishnapisharody,** Steel Research Centre, Department of Materials Science and Engineering, McMaster University, Hamilton, Ont., Canada
  - **Gordon A. Irons,** Steel Research Centre, Department of Materials Science and Engineering, McMaster University, Hamilton, Ont., Canada
  - **J.F. MacGregor,** Dofasco professor of process automation & IT, McMaster Advanced Control Consortium, Department of Chemical Engineering, McMaster University, Hamilton, Ont., Canada

*Gordon Irons (right) accepted the Ladle and Secondary Refining Award for Best Paper.*


Nikitenko


Regier


Speer


Matlock


Jansto


Merwin


Killmore

## Rolling and Finishing Technology Division

### Rolling Technology Award for Best Paper

*Established in 2007, this award is presented to the author of a paper selected by the AIST Rolling and Finishing Technology Division, and judged to be the best paper submitted to the Roll Technology Operating Committee.*

- **2008 Recipient** for his paper entitled, "Hot Band Profile Irregularities Related to Thermal Contour of Work Roll": **Evgueni Nikitenko,** research specialist, United States Steel Research and Technology Center, Munhall, Pa., USA

## Process Metallurgy and Product Applications Technology Division

(to be presented at MS&T'08, Oct. 6–9, 2008, David L. Lawrence Convention Center, Pittsburgh, Pa.)

### Jerry Silver Award for Best Paper

*Originally established in 1991, then re-established as an AIST award in 2005, this award was named in honor of Jerry Silver 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 process metallurgy or product applications technical paper judged to be the best of class by the AIST Process Metallurgy and Product Applications Technology Division. One of the authors must be a student.*

- **2007 Recipients** for their paper entitled, "Thermomechanical Processing Effects on the Elevated Temperature Behavior of Niobium Bearing Fire-Resistant Steel":
  - **Ryan W. Regier,** graduate research assistant, Advanced Steel Processing and Products Research Center, Colorado School of Mines, Golden, Colo., USA
  - **John G. Speer,** professor of metallurgical and materials engineering, Advanced Steel Processing and Products Research Center, Colorado School of Mines, Golden, Colo., USA
  - **David K. Matlock,** ARMCO Foundation Fogarty Professor, and director, Advanced Steel Processing and Products Research Center, Colorado School of Mines, Golden, Colo., USA
  - **Amy J. Bailey,** management systems facilitator and metallurgical engineer, Gerdau Ameristeel Midlothian, Midlothian, Texas, USA
  - **Steven G. Jansto,** market development manager, Reference Metals Co., Bridgeville, 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 was re-established as an AIST award in 2005. The award is presented to the author of a physical metallurgy technical paper judged to be the best of class by the AIST Process Metallurgy and Product Applications Technology Division.*

- **2007 Recipient** for his paper entitled, "Microstructure and Properties of Cold Rolled and Annealed Low-Carbon Manganese TRIP Steels": **Matthew J. Merwin**, research specialist, United States Steel Research and Technology Center, Munhall, Pa., USA

### Richard J. Fruehan Award for Best Paper

*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 process metallurgy technical paper judged to be the best of class by the AIST Process Metallurgy and Product Applications Technology Division.*

- **2007 Recipients** for their paper entitled, "Development of Ultrathin Cast Strip Products by the CASTRIP Process":
  - **Chris R. Killmore,** product design manager, BlueScope Steel Ltd., Wollongong, NSW, Australia
  - **Heather Creely,** metallurgist, Nucor Steel–Indiana, Crawfordsville, Ind., USA
  - **Andrew W. Phillips,** metallurgist, BlueScope Steel Ltd., Port Kembla, NSW, Australia
  - **Harold Kaul,** metallurgical development officer, BlueScope Steel Ltd., Port Kembla, NSW, Australia
  - **Peter Campbell,** Nucor Steel–Indiana, Crawfordsville, Ind., USA


Phillips


Kaul


Campbell


Williams


Blejde


Kojovic


Sharma


Bishop

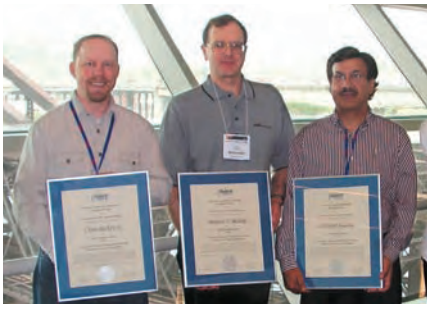
- **Michael A. Schueren,** manager — meltshop, Nucor Steel–Indiana, Crawfordsville, Ind., USA
- **James G. Williams,** manager — metallurgical technology, BlueScope Steel Ltd., Wollongong, NSW, Australia
- **Walter Blejde,** director of technology, Castrip LLC, Charlotte, N.C., USA

## Process Control and Automation Technology Division

### AIST Farrington Award

*This award was established in 2005 to honor James Farrington, founder and first president of AISEE, 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 technical paper judged by the Process Automation and Control Technology Division to be the best submitted within the Electrical Engineering Operating Committee.*

- **2008 Recipients:** for their paper entitled, "Innovative Solutions for Differential Protection of Electric Arc Furnace Transformers":
  - **Ljubomir Kojovic,** chief power systems engineer, T.A. Edison Technical Center, Cooper Power Systems, Franksville, Wis., USA
  - **Dharam Sharma,** electrical engineer, Nucor-Yamato Steel Co., Blytheville, Ark., USA
  - **Martin T. Bishop,** chief engineer — Systems Integration Group, T.A. Edison Technical Center Cooper Power Systems, Franksville, Wis., USA
  - **Chris Birkbeck,** power systems electrical engineer, Nucor Steel–Indiana, Crawfordsville, Ind., USA


*Recipients of the AIST Farrington Award (left to right): Chris Birkbeck, Martin Bishop and Dharam Sharma.*

### Computer Applications Award for Best Paper

*Established in 2005, this award is presented to the author(s) of a technical paper judged by the Process Control and Automation Technology Division to be the best submitted within the Computer Applications Operating Committee.*

- **2008 Recipients** for their paper entitled, "EAF Energy and Material Balance Modeling":
  - **Sunday O. Abraham,** manager — research and development, SSAB IPSCO, Regina, Sask., Canada
  - **Shaojie Chen,** research engineer, SSAB IPSCO, Regina, Sask., Canada


*Shaojie Chen (left) and Sunday Abraham (right) received the Computer Applications Award for Best Paper.*

## Material Handling and Facilities Technology Division

(presented at the Cranes Specialty Conference, June 1–3, 2008, Pittsburgh, Pa.)

### Crane Innovation of the Year Award

*Established in 2007, this award is presented to the author of a crane technical paper judged by the AIST Material Handling and Facilities Technology Division to be the best submitted within the Cranes Operating Committee.*

- **2008 Recipient** for his paper entitled, "Slabyard Duel 200-hp Hoist Conversion at SeverStal NA": **Jody Van Kammen,** electrical CAMS, SeverStal North America Inc., Dearborn, Mich., USA


Abraham


Chen


Van Kammen

*Rawlins*

*Lekakh*

*Richards*

*Peaslee*

## Maintenance and Reliability Technology Division

### Reliability Achievement Award

*The Maintenance and Reliability 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.*

- **2007 Gold Award Winner: ArcelorMittal Dofasco Inc.,** Hamilton, Ont., Canada, for implementation of a Maintenance Task Analysis methodology to efficiently monitor and manage key maintenance tasks to ensure manufacturing reliability in the KOBM, LMF1 and Caster areas resulting in multi-million dollar savings at Steelmaking.
- **2007 Silver Award Winner: Nucor Steel–Berkeley,** Huger, S.C., USA, for installation of weld head strapping technology to secure beams and long bar bundles which significantly improved bundle handling safety, eliminated downtime due to strapping failures, reduced banding material consumption and increased productivity.
- **2007 Bronze Award Winner: United States Steel–Midwest Division,** Portage, Ind., USA, for utilizing laser alignment and revised procedures for improved reliability of the alignment and maintenance of the temper mill rolls and tension reel resulting in a 92% reduction in trade shape rejections over a 10-year period.

## Project and Plant Management Technology Division

### Project Excellence Award

*The Project and Plant Management Technology Division has established the Project Excellence Award to recognize an iron and/or steel producing company for a successfully completed project based on business success, safety and performance, technical success, and project management systems.*

- **2007 Recipient: ArcelorMittal Dofasco Inc.,** Hamilton, Ont., Canada, for the outstanding business and technical success, safety performance, and project and construction management excellence of the No. 3 Acid Regeneration Plant Project.

## Safety, Energy and Environment Technology Division

### Environmental Technology Award for Best Paper and Presentation

*Established in 2005, this award is presented to the author(s) of a technical paper judged by the Safety, Energy and Environment Technology Division to be the best submitted within the Environmental Technology Operating Committee.*

- **2008 Recipients** for their paper entitled, "The Use of Steelmaking Slag for Mineralogical Sequestraton of Carbon Dioxide — Aqueous Processing":
  - **C. Hank Rawlins,** graduate research, Dept. of Materials Science & Engineering, Missouri University of Science and Technology, Rolla, Mo., USA
  - **Simon N. Lekakh,** research associate professor, Missouri University of Science and Technology, Rolla, Mo., USA
  - **Von L. Richards,** associate professor, Missouri University of Science and Technology, Rolla, Mo., USA
  - **Kent D. Peaslee,** F. Kenneth Iverson Chair of Steelmaking Technology, Missouri University of Science and Technology, Rolla, Mo., USA

*Von Richards (left center) and Kent Peaslee (right center) accepted the Environmental Technology Award for Best Paper and Presentation.*

### Energy Achievement Award

*The AIST Energy and Utilities Operating Committee (EUOC), under the Safety, Energy and Environment Technology Division, 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*


Wentling


Quinn


Cipich


Reed


Sullivan

*producing sector. The work shall include innovative technology applications that involve operating, design, construction, commissioning, etc. The submitted project must have been completed within two calendar years preceding the year in which the application is submitted. "Completed" shall mean that project start-up and verification processes are finalized or close to being finalized and that post-installation operating results are available. Applicants must allow one or more members of the Energy Achievement Award Subcommittee to visit the project site to verify the accuracy of the application data and project, if required.*

- **2007 Recipient: The Timken Co. – Gambrinus Plant, No. 4 Mill,** Canton, Ohio, USA, Rotary Furnace Regenerative Burner Retrofit Project
  "For outstanding energy conservation through the application of innovative technology." Accepted by **Valerie Wentling,** principal reliability analysis, The Timken Co.

# AIST Member Chapter Awards

## AIST Detroit Member Chapter

### Wimmer Award

*Established in 2006, this award is presented to a dedicated chapter member for exceptional service to the AIST Detroit Member Chapter.*

- **2008 Recipient: Judith A. Quinn,** president, Judith A. Quinn & Associates LLC, Belleville, Mich., USA

# AIST Presidential Citations

### 2008 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.*

- **2008 Recipients:**
  - **Thomas H. Cipich,** construction manager, Integrated Project Resources, Chicago, Ill., USA
    *In recognition of sustained excellence in all aspects of AIST activity, including consistent contributions to the development and enhancement of the Midwest Member Chapter, bringing substantial recognition and credit to chapter activities.*
  - **Jeffrey R. Reed,** site maintenance supervisor, California Steel Industries Inc., Fontana, Calif., USA
    *In recognition of service as an active ambassador for the Southern California Member Chapter through continuous development and promotion of chapter events, increasing chapter strength and promoting growth.*
  - **Michael D. Sullivan,** managing member, Ironmaster LLC, Export, Pa., USA
    *In recognition for his many years of dedicated and loyal service, for his ability to challenge and encourage active participation in AIST to those entering the steel industry, and for his continued contributions to AIST through his service as the Treasurer for the Pittsburgh Member Chapter.*

# 2007

# AIME Awards

*Founded in 1871 by a group of coal miners in Wilkes-Barre, Pa., the American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME) represents 100,000 engineers and scientists worldwide within its four separate Member Societies: Society for Mining, Metallurgy, and Exploration (SME), The Minerals, Metals and Materials Society (TMS), Association for Iron & Steel Technology (AIST), and Society of Petroleum Engineers (SPE). The AIME family continues a more than 135-year tradition of leadership in the exploration, extraction and production of the earth's minerals, materials and energy resources.*

*AIME supports the advancement of its Member Societies and represents the Societies in the larger engineering and scientific community. AIME programs and activities are supported primarily from the return on investment of more than 30 Endowment Funds. These funds provide support for forward-reaching programs including awards of excellence, graduate and undergraduate scholarships, and grants. Additionally, the four Member Societies produce 14 technical journals and publish hundreds of technical reference books, conference proceedings, and papers annually.*

*Association for Iron & Steel Technology (AIST)*
*Society for Mining, Metallurgy, and Exploration (SME)*
*Society of Petroleum Engineers (SPE)*
*The Minerals, Metals & Materials Society (TMS)*

## 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.*

***"In recognition of his distinguished service to the steel industry and to AIME through his activities with TMS, ISS and AIST, and for his exceptional contributions to the fundamental knowledge of mechanical behavior, processing and performance of steel products, and his deep commitment to the development of the next generation of metallurgical professionals."***

- **2007 Winner: David K. Matlock, Professor,** Department of Metallurgical and Materials, Colorado School of Mines, Golden, Colo., USA

David K. Matlock received his B.S. degree in engineering science from the University of Texas at Austin (1968), and his M.S. (1970) and Ph.D. (1972) degrees in materials science and engineering from Stanford University. He is the Armco Foundation Fogarty Professor in the Department of Metallurgical and Materials Engineering at Colorado School of Mines (CSM), Golden, Colo. He joined the CSM faculty in 1972 and is involved in teaching and research, primarily related to the mechanical properties of materials. He is one of the cofounders and currently serves as director of the Advanced Steel Processing and Products Research Center, an industry-university cooperative research center established at CSM in 1984. The center currently has 25 corporate sponsors and is recognized as one of the most successful industry-university research centers in the world. Prof. Matlock is a fellow of the American Society for Metals (ASM), a fellow of the American Welding Society (AWS) and a member of the National Academy of Engineering. He has received numerous awards for teaching and research. In his 36-year career at CSM, he has received outstanding teaching awards on many occasions, including in 1987 being named the first CSM Outstanding Educator by CSM's president, and in 2006 the CSM Board of Trustees' Outstanding Faculty Award recipient. His teaching and research efforts have led to awards from several professional societies, including the Metallurgical Society of AIME, the Iron & Steel Society, ASM, AWS, the Society of Automotive Engineers, and the American Nuclear Society. He has authored or co-authored more than 300 technical publications, mostly related to steels. ✦

*Matlock*

*The AIME Honorary Member Award was presented to David Matlock (right).*