

ICMA Spotlight

G&W Electric/ Manufacturers Brass & Aluminum Foundry *A century of innovation*

G&W Electric Company was founded in 1905 by Harry Gear and Paul Williams, two distribution utility engineers from Commonwealth Edison in Chicago. The original machine shop was located on Jackson Boulevard in Chicago. It is now located in Blue Island. Gear and Williams had a better idea and started their business with the introduction of the first detachable type, porcelain pothead (cable terminating device) which offered many benefits to the electrical power system designer.

G&W began to build a reputation for engineering unique solutions to meet the needs of systems designers. Solutions which today have extended far beyond cable accessory products and into the latest in solid dielectric and SF6 switchgear, reclosers, system protection equipment and automation controls.

G&W product lines are backed by extensive design and production testing in

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ICMA is a proud member and supporter of FEF and FIRST.



The Foundation for
Metal Casting Education



THE ILLINOIS CAST METALS ASSOCIATION Runner

www.ilcastmetals.org

Serving our members since 1977

Summer 2007

From Executive Director Stan Zielinski . . .

It is with great pleasure that the ICMA Board of Directors offer congratulations to FEF on its 60 years as a valued advisor and industry leader in student education for the casting industry. Following is the history of FEF.

FEF celebrates 60 years of service

Helping students become metal casting industry leaders

The Foundry Educational Foundation (FEF) has built bridges linking leaders in the metal casting industry with engineering programs on college and university campuses since its establishment in 1947. The link between industry and academia established a path that facilitated the influx of talented and interested students toward lucrative and rewarding careers in metal casting.

FEF was established to develop cooperative educational programs between companies and technical education programs in metal casting. Collaboratively, industry leaders, industry societies and higher learning institutions all helped launch FEF as a means to meet the human resource needs of a growing industry. In order to assure the practical application of post-secondary education in metal casting, FEF began offering scholarships, internships and cooperative education programs with technical schools, colleges and universities. These incentives helped attract talented young men and women to careers in metal casting.

FEF provides a national industry information session at its Annual College Industry Conference. Many senior-level students in metal casting at FEF accredited schools make the contacts that secure their future jobs during the College Industry Conference.

In recent years, as the metal casting industry became more and more competitive in the United States, successful industry leaders responded by emphasizing innovation and quality management. The metal casting industry is now, as it was in 1947, changing rapidly, and in great need of highly qualified metal casting engineers whose expertise must now include a broad array of business and personnel management skills.

As the number of foundries has decreased, FEF's financial support of outstanding students in metal casting education and of post-secondary programs in metal casting has continued to climb. Between 1996 and 2006, 2,243 students in metal casting received FEF scholarships. Based on that information alone, it's con-

ceivable that there is at least one FEF scholar working at every one of the 2,190 foundries operating in the U.S. With such a sterling record of accountability, effectiveness, and impact, FEF surely has brought its vision to reality.

In its 60-year history, FEF has become synonymous with attracting the best engineering students into the workplace and meeting the leadership needs of the metal casting industry.

Bill Sorensen has been the Executive Director of FEF for 24 years. In 2006, he was awarded the VK Medal from the Foundry Educational Trust in the UK at the World Foundry Conference in Harrogate, UK, held June 4-7, 2006. The Trust commemorates the life and work of Voya Kondic, who spent most of his life at the University of Birmingham, UK. Sorensen was the first American and first non-academic to receive this medal.

The ICMA proudly supports the Foundation for Metal Casting Education and congratulates Bill Sorensen on his 24-year career. ■

BRIEFLY

Please give your support to the loyal Associate Members of the Illinois Cast Metals Association

American Colloid Co.
AMCOL International Corp.
Ashland Specialty Chemicals
Blackhawk Specialty Products
Corporate Development, Inc.
Fairmount Minerals
Hickman, Williams & Co.
Hill & Griffith Co.
Manley Brothers of Indiana, Inc.
Rock Island Arsenal
Thilman Filippini, an HRH Company

ICMA business news . . .

Ashland, Inc.'s Scott Hoertz is the new vice president and general manager of Ashland Casting Solutions. Ashland Inc., supplies products, services and technologies to the metalcasting industry worldwide.

Fairmount Minerals recently held a groundbreaking ceremony for **Wisconsin Industrial Sand Company, a division of Fairmount Minerals, Ltd.** The company specializes in processing high-quality silica products for glass manufacturing, metal casting and oil/gas well development. They will become a primary supplier to the Cardinal

Glass Co. in 2008. Plant construction will be completed in 2007.

The **Foundry Educational Foundation (FEF)** recently held its Annual Meeting on April 24 and elected this year's officers: Jerry Clancey, Sales Vice President, Fairmount Minerals, Bridgman, Michigan, was approved as Second Vice President. Joe Costabile, Sales Engineer, Hickman, Williams, Inc., Oak Brook, Illinois, was approved as Secretary.

The ICMA board of directors continues to support the Foundry Educational Foundation (FEF) through its annual financial

contributions. As an ICMA member, please make your pledge to uphold its mission of . . . "helping today's students become tomorrow's leaders in the casting industry," by sending your gift to FEF.

Hickman, Williams Company purchased Melting Materials, Inc., Alloy & Metal Processors, Inc., and Alloys & Carbon, Inc., each doing business as AMP/MMI, in Birmingham, Alabama. The purchase will increase Hickman, Williams' capacity to process carbon products used in steel recarburizers and for slag foaming. ■

Community history . . .

Fort Armstrong and Rock Island Arsenal

Rock Island Arsenal Garrison is an active US Army facility located on a 946-acre island in the Mississippi River. In 1969, the arsenal was placed on the National Register of Historic Places. In 1989, the original arsenal buildings were designated a National Historic Landmark.

Today, Rock Island Arsenal Garrison is our nation's largest government owned and operated arsenal. The importance of the island

was identified as early as 1809, when it was set aside as a federal military reservation by an Act of Congress.

In 1816, Fort Armstrong was built as part of a system of forts in the Upper Mississippi Valley. The fort's most important role in keeping the peace was when it served as military headquarters during the Black Hawk War of 1832. It was abandoned in 1836, but remained an ordnance depot until 1845. What we

see today is the 1916 replica of one of its blockhouses erected for the fort's centennial celebration.

George Davenport originally came to Rock Island as the sutler for Fort Armstrong. By 1818, he resigned and established a more lucrative trading post on Rock Island. During the Black Hawk War, he served as the quartermaster for the militia and troops. This earned him the honorary title of Colonel and

\$20,000 in compensation.

In 1833, he built a mansion on Rock Island overlooking the Mississippi. When he lived in the home, the city of Davenport, Iowa, was mapped out and named after him and the first meeting to bring the railroad to the area was held. Members of the "Banditti of the Prairie" murdered him in his home on July 4, 1845.

On April 22, 1856, the Railroad Bridge Company completed the first railroad bridge across the Mississippi River. This was a wooden bridge with five spans and a swing span at mid-channel. Fifteen days after it was opened, the steamboat Effie Afton struck the bridge. The Effie Afton was destroyed, and part of the bridge was burned. This incident led to a famous court case that pit-

ICMA member companies' anniversaries . . .

- Alu-Bra Foundry, Bensenville (1957) 40 Years
- AMCOL International, American Colloid, Arlington Heights (1927) 80 years
- Ashland Casting Solutions (Ashland Specialty Chemical) Dublin, Ohio, (1917) 90 years
- Century Brass Works Inc, Belleville (1917) 90 years
- Foundry Educational Foundation (FEF) (1947) 60 years
(a friend and supporter of the casting industry)

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EPA issues proposed amendment to MACT

On April 17, the U.S. Environmental Protection Agency (EPA) issued a proposed rule to amend the national emission standards for hazardous air pollutants for iron and steel metalcasting facilities, known as the Iron & Steel MACT. This proposed rule is the outcome of the industry's legal challenge to the final Iron & Steel MACT that was finalized in April 2004. AFS and EPA have been negotiating an agreement on how to address the industry's

concerns with the MACT standards. After finally reaching an agreement and settling the lawsuit, EPA has fulfilled its obligations by proposing this rule to modify the Iron & Steel MACT regulatory language.

Public comments on the proposed changes to the Iron & Steel MACT are due to EPA by May 17, 2007. By law, EPA is required to respond to every comment on a proposed rule before moving forward to finalize it. Since the April 23 com-

pliance date has already passed, it is vital that this rule be finalized as soon as possible. AFS does not want to delay the process and, on advice of counsel, has decided that it will not be filing comments in support of the rule.

For more information, contact Amy Blankenbiller, AFS Washington Office, at 202-842-4864 or ab@afsinc.org. To view the proposed amendment, visit www.epa.gov/ttn/atw/ifoundry/ifoundrypg.html. ■

SPOTLIGHT

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accordance with and often exceeding industry standards. But better yet is the proven performance and assured reliability that only comes over time. G&W products have been proving themselves for many decades. Whether a part of a major project requiring a different approach or creative solution, to more convenient tried and true methods, G&W can work as part of the project team from initial concept planning through final imple-

mentation.

Today's G&W combines extensive research and development with ISO 9001:2000 certified quality systems in both its manufacturing and design process. Add to this the latest in manufacturing equipment, an extensive global sales organization and experienced customer response teams, and you have a powerful resource — one which is ready to work with you on your specific system requirements. G&W's headquarter operations is a testament to the company's commitment to

quality. Located in Blue Island, Illinois, USA, the plant covers over 162,000 square feet and represents a showplace of modern engineering, manufacturing and marketing technology.

With an ever-present commitment to customer satisfaction, G&W enjoys a worldwide reputation for quality products and superior service. It is this commitment which has kept G&W ahead of a changing industry, and one which will allow us to power the world for many years to come. ■

Upcoming Events — Industry & Meeting Schedule 2007

Cupola Melting for Engineers
June 26-28

Analysis & Reduction of Casting Defects
June 26-28

Induction Melted Steel Processing
June 27-29

Six Sigma Green Belt Certification-
INTERNET COURSE, July 2-Aug. 12

Ductile Iron Metallurgy-
INTERNET COURSE, 9-Aug. 5

AFS/CMI Board of Directors Meeting, Doubletree Hotel,
Arlington Heights, IL, August 7-8

American Foundry Society
Chapter Officers Conference, Doubletree Hotel,
Arlington Heights, IL, August 9-10

Industrial Minerals Association – North America and the
National Industrial Sand Association, Annual Meeting,
Jackson Lake Lodge, Moran, WY, September 11-13

AFS Foundry Executive Conference, Wentworth by the
Sea, New Castle, NH, September 16-19

Non-Ferrous Founders Society (NFFS), Annual Meet-
ing, The Wigwam Resort, Phoenix, AZ, October 4-10

AFS 19th EH&S Conference, Sheraton Music City
Hotel, Nashville, TN, October 7-10

National Safety Council, 95th Congress & Expo,
McCormick Place, Chicago, IL, October 12-19



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If you have any questions about the Illinois Cast Metals Association, please contact Stan Zielinski at 217-528-8238, email: stanz@ilcastmetals.org

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HISTORY

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ted steamboat interests against railroad interests. Abraham Lincoln, then a Springfield lawyer, defended the railroad. The trial ended in a hung jury. The U.S. Supreme Court eventually decided a subsequent suit in December 1862, and the bridge remained operational. The first Government Bridge of 1872 replaced it. Today, a monument marks the location of this bridge.

The Government Bridge that we cross today from Rock Island Arsenal Garrison to Davenport, Iowa, was built in 1896. It is a double-decker bridge with double railroad tracks above and a roadway below. It was built on the same piers as the first Government Bridge of 1872. Its swing span, that can rotate 360° for river traffic is a unique engineering accomplishment.

An Act of Congress established Rock Island

Arsenal in 1862. Major Charles P. Kingsbury, the first Commanding Officer of Rock Island Arsenal, located and designed three buildings for the arsenal. In 1867, the Clock Tower Building was the only one completed. Today, it is the home of the U.S. Army Corps of Engineers, Rock Island District.

Brevet Brigadier General Thomas J. Rodman, the second Commanding Officer of Rock Island Arsenal, redesigned the arsenal on a much grander scale. For his contributions from 1865 to 1871, he is known as the "Father of Rock Island Arsenal." From 1871 to 1886, Lieutenant Colonel Daniel W. Flagler oversaw the construction of the arsenal buildings upon Rodman's death.

Rodman designed the ten stone shops at the center of the island. The five buildings in the south row were designated "arsenal row," and were designed for the manufacture and over-

haul of general ordnance material. The five buildings in the north row were designated "armory row," and were designed for the manufacture and overhaul of small arms.

Rodman also designed living quarters for himself and his military assistants. Quarters One, an Italianate villa, was completed in 1871. It has 20,000 square feet of floor space divided into over 50 rooms. It is considered the second largest single-family government residence next to the White House.

The Rock Island Prison Barracks existed from December 1863 to July 1865. It was one of 21 prison camps operated by the Union. A total of 12,192 Confederate prisoners were held at the prison camp. The Confederate Cemetery is the only tangible remains of the Rock Island Prison Barracks. A total of 1,964 prisoners died. Each grave marker

identifies the individual soldier, his company, and his unit.

The Rock Island National Cemetery is one of 117 national cemeteries operated by the Veterans Administration throughout the United States. Originally established in 1863 as the post cemetery for Union prison guards at the Rock Island Prison Barracks, this cemetery is among the 20 oldest national cemeteries. The cemetery covers 70 acres and has approximately 23,000 to 24,000 grave markers representing 29,000 burials. It is among the 30 largest national cemeteries in terms of number of burials.

Reference: Rock Island Arsenal AUSA Chapter #5102, Arsenal Island, Rock Island, Illinois.

Rock Island Arsenal, Rock Island is a loyal member of the ICMA. ■

OSHA schedules safety classes . . .

Event: Electrical Safety

Date/Time: June 13, 2007 (7:30-10:00 a.m.)

Location: EIGERlab, 605 Fulton Avenue, Rockford, IL

Sponsors Include: U.S. Labor Department's Occupational Safety and Health Administration, North Aurora Area Office, the Onsite Consultation Program of the Illinois Department of Commerce & Economic Opportunity, Rock Valley Small Business Development Center and EDGE Business Center.

Registration Contact: For information contact EDGE at rsvp@edge-ni.org or (815) 316-6367.

OSHA Contact: Nancy Quick, Compliance Assistance Specialist, North Aurora OSHA Area Office (630) 896-8700.

Event: Personal Protective Equipment (PPE)

Date/Time: July 18, 2007 (7:30-10:00 a.m.)

Location: EIGERlab, 605 Fulton Avenue, Rockford, IL

Sponsors Include: U.S. Labor Department's Occupational Safety and Health Administration, North Aurora Area Office, the Onsite Consultation Program of the Illinois Department of Commerce & Economic Opportunity, Rock Valley Small Business Development Center and EDGE Business Center.

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