



# TMD Newsletter

July 2015



Standards Worldwide

## New ASTM standard for CGR approved

After two years of effort, a new ASTM standard A1094 "Specification for Continuous Hot-Dip Galvanized Steel Bars for Concrete Reinforcement" was approved by the ASTM International Committee A01 on Steel, Stainless Steel and Related

Alloys in May. IZA was instrumental in developing this new standard.

With a 50 micron almost pure zinc coating, the continuous galvanizing rebar (CGR) process provides excellent corrosion protection to the reinforcing steel bars at significantly lower costs than many other protection systems. As well, the coated bars can be formed at the construction site.

Establishing this standard is a critical step in the marketing effort to bridge and road infrastructure specifiers; engineering companies; and producers of precast concrete structures.

A press release issued by ASTM emphasized IZA's support through Gary Dallin, Director of IZA's Galvinfo Center and a member of ASTM. To read the press release please [click here](#).

## Promotion activities of CGR

In North America, IZA exhibited at The Precast Show held in Orlando, Florida in March. The show attracted over 3,000

## Upcoming IZA Conferences



## Three hot-dip galvanizing seminars in Southeast Asia

Three general galvanizing seminars will be conducted by IZA jointly in co-operation with Padaeng Industry's Centre of Excellence and the newly formed Thai Galvanizers Association in Bangkok, Thailand in late July and September.

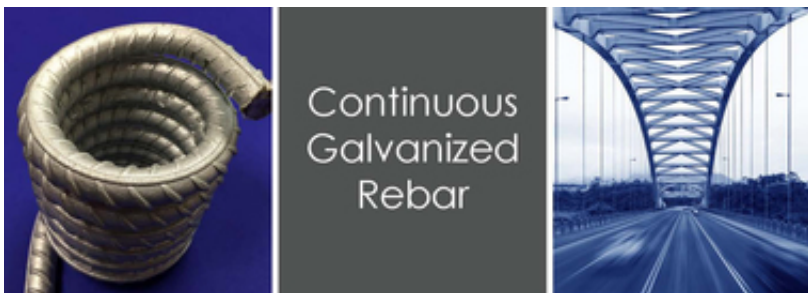
For further information,

industry manufacturers and suppliers. The precast industry has a solid growth projection of 8-10%. CGR has potential applications for use as straight lengths or welded wire mesh to prolong the life of precast concrete panels which are used for building construction, and road and bridge structures.

IZA highlighted CGR at the committee meetings of the American Concrete Institute (ACI) in Kansas City, Missouri in April. ACI is a leading authority and resource worldwide for the development and distribution of consensus-based standards and a technical resource for individuals and organizations involved in concrete design, construction and materials.

IZA promoted CGR at the annual AASHTO Subcommittee on Bridges and Structures working meeting and had an exhibit booth at the International Bridge Conference in Pittsburgh, Pennsylvania in June, which attracted over 1,400 participants from 48 states and 17 countries.

A new brochure and post card featuring case histories and updates on the exceptional formability of CGR were widely distributed.



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### **GAP results further strengthen galvanized steel competitive position**

The Global Galvanized Autobody Partnership (GAP) Program Review Meeting was held in Toronto, Canada in June and had a record attendance of 65 steelmaker engineers, operators and researchers. The highlights included the presentation of composition and galvanizing processing specifications for two new third-generation automotive steels. Both of these steels exceed the requirements of the US Department of Energy: 1610 MPa tensile strength and 30% elongation.

These breakthrough results ensure that zinc-coated automotive steels will continue to meet US legislative requirements through

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### **Zinc Smelting & Environment Conference**

IZA's 2nd Zinc Smelting & Environment Conference will be held in Chifeng City, Inner Mongolia on August 24-27, 2015. The conference will be co-organized with NFC Kumba Chifeng Hongye Zinc Industry Co., Ltd, Hulun Buir Chihong Mining Co., Ltd., Outotec Oyj and others. Presentations will focus on zinc smelting and refining technology and processes, equipment, recycling and environmental issues.

For further information [click here.](#)



2025 when fuel economy minimum levels reach 54.5 miles per gallon. These galvanized steels also offer the required crash (safety) performance at low cost.



Automotive applications already consume 600,000 annual tonnes of zinc. Projected growth in China and India are forecast to increase this figure by 350,000 and 150,000 annual tonnes, respectively, during the next five years. These recent GAP program results further strengthen the competitive position of galvanized automotive steel versus aluminum and other lightweight contenders for automobile applications.



### **CFC to provide loan to Indian zinc die caster**

Following the success of the CFC-IZA funded zinc die casting project to transfer technology and stimulate demand in India, the Common Fund for Commodities (CFC) has agreed to provide a \$1.5 million low interest loan to DST Industries.

The CFC-granted loan will help DST to expand its operations and create a state-of-the-art integrated die casting and electroplating facility in India to produce good quality zinc die castings for the automotive, hardware and household appliance industries.

As part of the agreement with CFC and IZA, DST committed to use part of the funds to establish a zinc die casting training center to generate trained manpower. The new casting and plating operation will be used for practical demonstration and teaching. Training will also be available to personnel from other companies which will increase the general zinc die casting capacity in India. The percentage of zinc used in die casting is lower in India than in most other countries and this initiative will help increase the overall demand.

**GalvInfo Galvanized Sheet Steel Production Course**, Pittsburgh, Pennsylvania, December 8-10, 2015

For further information [click here.](#)



**IZA Annual Committee meetings TMD / ESD**, Miami, Florida, September 9-10, 2015

For further information, please contact [rchart@zinc.org](mailto:rchart@zinc.org)



**GAP North American Program Review Meeting**, Toledo, Ohio, October 21-22, 2015

**GAP European Program Review Meeting**, Salzgitter, Germany, October 27-28, 2015

For further information, please contact [fgoodwin@zinc.org](mailto:fgoodwin@zinc.org)

**Other Industry Conferences**



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## **JSW Steel provides first ISSBG President**

The Indian Sheet Steel Building Group (ISSBG) was created by IZA to increase the use of zinc and zinc alloy coated steel sheet in the construction and automotive markets in India. ISSBG is a technical platform to provide expert guidance, and develops and promotes industry standards to support architects, designers, engineers and builders to achieve structurally sound and ambitious projects.

Mr. Dileep Bhatt, President, Steel Operations, JSW Steel, India's largest private sector steel company, has been appointed the first President of ISSBG.

"Mr. Bhatt enjoys high standing in the steel and roll forming industry and will contribute significantly to raising the awareness of zinc's benefits in protecting steel from corrosion. IZA and ISSBG look forward to growing the coated steel sheet market under his presidency," commented Rahul Sharma, Director, IZA India.

A dedicated section on the [IZA India website](#) has been created along with numerous technical documents, a promotional brochure and the launch of a corrosion testing program.

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## **IZA participates in major industry conferences**



### **India Steel 2015**

In conjunction with Hindustan Zinc Limited, IZA participated in the International Conference & Exhibition on Galvanizing & Galvanized Steel in Automobiles, Construction & Infrastructure, held in Mumbai in April, to raise the awareness of benefits of zinc-coated steels in automotive and construction applications. IZA hosted a booth and IZA expert Ken De Souza also made a presentation "Galvanizing - The Great Protector of Automobiles and Buildings".

India Steel is a joint initiative of the Ministry of Steel, the Government of India and the Federation of Indian Chambers of



20th Galvanizing & Coil Coating Conference (Metal Bulletin), Istanbul, Turkey, September 7-8, 2015

Zinc Die Casting Congress & Exposition (NADCA), Indianapolis, Indiana, October 5-7, 2015

Tech Forum (AGA), Cincinnati, Ohio, October 6-8, 2015

Galvanizers Association Meeting, Toledo, Ohio, October 18-21, 2015

"Big 5" Construction Materials Conference, Dubai, November 23-27, 2015



Commerce and Industry. The event was attended by 7,000 visitors including key decision makers from steel producers, infrastructure, construction and engineering companies, government procurement, builders and developers and other contractors.



### **Galvatech 2015: 10th International Conference on Zinc and Zinc Alloy Coated Steel**

The world's largest sheet galvanizing conference, Galvatech 2015, held in Toronto, Canada in June attracted more than 600 participants from steelmaking industries worldwide including exhibitors of galvanizing line equipment and analytical tools.

"This tenth Galvatech was one of the most successful in its history," commented conference co-organizer Dr. Frank Goodwin, IZA Director, Technology and Market Development. "Zinc-coated sheet steel developments are moving at an incredible pace mainly driven by the auto industry including hot press formed steels, Zn-Al-Mg coatings, ultra-high strength grades that are proving to be galvanizable and upgraded production technology including environmentally friendly post-treatments".

Galvatech 2015 was organized by the Association for Iron and Steel Technology (AIST) with the assistance of ArcelorMittal, Dofasco and USS Canada that hosted more than 100 participants on tours of their galvanizing lines.

The next Galvatech will be held in November 2017 at University of Tokyo, Japan.



### **Intergalva 2015**

Nearly 500 general galvanizers and their suppliers convened in Liverpool, U.K. in June for Intergalva 2015. This conference included a three-day technical program and exhibition followed by two days of galvanizing plant visits.

Several lectures addressed the bridge market for galvanizing and galvanized reinforcing bar in concrete. IZA's Dr. Frank Goodwin presented on "Hot-Dip Galvanizing in Renewable Energy Applications".

Intergalva 2018 will be held in Berlin, Germany.



## Pb-Zn 2015

The 2015 Lead Zinc Symposium was held in Dusseldorf, Germany in June with more than 500 attendees.

IZA`s Dr. Frank Goodwin was one of the plenary speakers "The Zinc Industry: New Developments".

A Short Course on zinc was also organized preceding the conference and attracted 37 students from global zinc mining, smelting and recycling companies. IZA`s Frank Goodwin and Berit Wirths presented respectively on "The Future Uses of Zinc" and "Zinc: A Life-Saving Commodity".



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