



ArcelorMittal

Proudly present

Technical Seminar on Applications and benefits of using high strength structural steel

by

Mr. Jean-Claude, Gerardy
ArcelorMittal, Head of Export
Esch-sur-Alzette, Luxembourg

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ArcelorMittal is the world's leading steel and mining company. Guided by a philosophy to produce safe, sustainable steel, it is the leading supplier of quality steel products in all major markets including automotive, construction, household appliances and packaging. ArcelorMittal is present in 60 countries and has an industrial footprint in 19 countries.

<https://corporate.arcelormittal.com/>

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**ASSOCIATION OF
CONSULTING ENGINEERS
SINGAPORE**

<https://aces.org.sg/>

Date: **11 November 2019, Monday**

Time: **6 pm to 10 pm (1800 hours to 2200 hours)**
Registration & Networking Dinner starts at 6 pm (1800 hours)

Venue: **Furama City Centre, Ballroom 2, Level 5**
60 Eu Tong Sen St, Singapore 059804
Nearest MRT: Chinatown (NE4) / Clarke Quay (NE5)
<https://goo.gl/maps/B78Z4ND4YyAN1q747>

Entrance Fee: **Free of Charge**

Limited seats available!

Hurry, do not miss this opportunity!

Please CLICK HERE to register.

(Note: for PE, kindly register your PE number as well)

** Included: 1 dinner. Presentation materials/ papers, if any, may be communicated via participant's email address after the end of programme, subject to Speaker's consent.*

This evening Seminar aims to enrich audience through sharing of information and knowledge on high strength structural steel, their applications and benefits for all stakeholders in the construction industry.

Developers, architects and engineers are facing bigger and more complex challenges when resources are limited. ArcelorMittal sees those challenges as opportunities and strives to deliver more structural steel innovations to the world.

The “in line” Quenching and Self-Tempering (QST) process at the ArcelorMittal heavy sections rolling mill of Differdange in Luxembourg is in industrial operation more than 25 years ago. With QST, it is made possible to combine high minimum yield strength up to 460 MPa, excellent weldability and outstanding toughness at low temperature into HISTAR® grade structural steel. With HISTAR® steel, ArcelorMittal satisfies the needs of the designers for light and economical structures which fulfill both safety and sustainability. HISTAR® steel is excellent for designing gravity columns of high-rise buildings, long span trusses. In addition, HISTAR® steel is recommended in case of stress governed as well as seismic design.

Other than HISTAR® steel, interesting structural steel innovations such as WTM product, 500MPa and 80 KSI high strength structural steel will be shared by the speaker at the Seminar. All these structural steel innovations are developed to address to the most challenging projects in the world.

This Seminar will also share good practices on connection design, fabrication and erection with references to a portfolio of projects which are both challenging and interesting to expand your engineering and construction knowledge horizon.

Last, but not the least important, A comparison between reinforced concrete structures and composite structures will be showcased at the seminar as well. The benefits of adopting composite structures in design and construction work as compared to reinforced concrete structures.

Speaker's Profile



Mr. Jean-Claude, Gerardy

ArcelorMittal, Head of Export

Esch-sur-Alzette, Luxembourg

<http://people.ctbuh.org/jean-claude-gerardySalutation/>

https://constructalia.arcelormittal.com/en/news_center/2019/05/leaning-out-documentary

<https://corporate.arcelormittal.com/news-and-media/news/2016/may/24-05-2016>

Mr. Jean-Claude (JC) Gerardy is a current CTBUH Advisory Group member and was involved in originating two major CTBUH research projects: [“A Whole Life Cycle Assessment of the Sustainable Aspects of Structural Systems in Tall Buildings”](#) and [“Study on the Constructability and the Engineering Properties of Composite Megacolumns.”](#)

A structural engineer from the [University of Liege](#) in Belgium, he started his career in ArcelorMittal research department (formerly ARBED research). During that time, he was involved in the development of Eurocodes on steel and composite structures. He was also representing ArcelorMittal within [ASTM \(American Society for Testing and Materials\)](#), [AWS \(American Welding Society\)](#), [AISC \(American Institute of Steel Construction\)](#) and the SSPC (Steel Shapes Producer Council).

He has provided technical expertise and advice on the steel design and construction of various tall buildings in the world, such as New York Freedom Tower, Shanghai Financial Centre, Burj Khalifa and etc.

*CTBUH - The Council on Tall Buildings and Urban Habitat is the world's leading resource for professionals focused on the inception, design, construction, and operation of tall buildings and future cities.

Programme

Time	Event
6.00 PM to 7.00 PM	Registration and Networking Dinner Guests and Participants to be seated
7.00 PM TO 10.00 PM	<p>Technical Presentation <i>by Mr. Jean-Claude, Gerardy</i> ArcelorMittal, Head of Export Esch-sur-Alzette, Luxembourg</p> <ul style="list-style-type: none">• An Overview of S460 Structural Steel• Evolution of structural steel yield strength• Code and standard for HISTAR, ETA, BC1• Features of HISTAR 460 and benefits of using it• Applications of HISTAR 460, WTM product, 500MPa, 80 KSI steel• Project references and case studies• Connection, Fabrication and Erection for Jumbo Sections• Design for welded and bolted connections according to EN standard comparison of welded and bolted connections• Good practice on Connection, Fabrication and Erection• Comparison between RC and Composite Structures <p>Feedback & Q&A</p>
10.00 PM	End of Programme