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Recent Trend in Welding Distortion Engineering - Dr. Mahyar Asadi, P.Eng & IWE

## Recent Trend in Welding Distortion Engineering - Dr. Mahyar Asadi, P.Eng & IWE

- February 07, 2019
- BCIT Habitat Pub, 3700 Willingdon Avenue
- Burnaby , Canada

### Description

## ASM BC CHAPTER FEBRUARY TECHNICAL MEETING

Join us on Tuesday, February 7th for dinner at BCIT's Habitat Pub and our Technical Meeting. This month we are honored to have Mahyar Asadi, PhD, P.Eng, IWE present.



**Dr. Mahyar Asadi** is the manager of advanced welding engineering services at Applus Canada. Mahyar's technical background is in Materials Engineering with a PhD in Computational Weld Mechanics and Fracture Analysis. He has been in industry for over 15 years in a variety of companies for initiating, developing and directing high-end services and proposals for weld engineering solutions for stress, thermal, microstructure, fatigue, creep, and fracture in welded structures. He holds Professional Engineer and International Welding Engineering designation. He is also adjunct teaching professor at the Material Engineering Dept. University of British Columbia teaching the Welding and Joining Materials course. His portfolio consists of over 60 papers, presentations, workshops, seminars, and co-authoring the chapter "Numerical Aspects of Welding" in ASM Handbook.

### Topic: "Recent Trend in Welding Distortion Engineering"

Controlling weld distortion is largely intuitive with welding engineers relying on their experience combined with the results of a limited number of practical tests. As an alternative, some top firms use digital engineering and simulation tools on modern computing platforms for weld distortion control when they need to develop a low-risk fabrication plan. Yet, despite efficient simulation tools and powerful supercomputers, these simulation tools are limited by computational time beyond a practical engineering when dealing with majority of real structures. Over years of industrial experience, the presenter developed signature techniques for weld distortion control to overcome this limitation where welding simulation integrated with other tools including machine learning algorithms for fast exploration of various welding scenarios. This talk presents these techniques tools with application to a real structure.

### Event Schedule:

6:00 - 6:15 PM Registration & Networking (Habitat Pub, SE2 Building)

6:15 - 7:15 PM Dinner

7:15 - 9:00 PM Presentation and Discussion

### Registration:

<https://www.eventbrite.ca/e/trends-in-welding-distortion-engineering-dr-mahyar-asadi-peng-iwe-tickets-55389624859>

(<https://www.eventbrite.ca/e/trends-in-welding-distortion-engineering-dr-mahyar-asadi-peng-iwe-tickets-55389624859>)

ASM Members may be asked to show their ASM Membership number and Students may be asked to show their Student Card. Online registration will be open until Tuesday, February 5th, 11:59pm. Tickets will be an additional \$5 if purchased at the door.

If you have any dietary considerations (ex. Vegetarian), please send your request to [asmbcchapter@gmail.com](mailto:asmbcchapter@gmail.com) with subject line "February Dinner - Dietary Consideration"

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