

JOM-20

Twenty International (Jubilee) Conference on Joining Materials

Venue: Konventum LO-Skolen, Helsingør-Denmark
Organiser: JOM, Osama Al-Erhayem

JOM-20 Final Programme

REGISTRATION





JOM-20

20th International Conference on Joining Materials

Helsingør-Denmark, May 26 to 29, 2019

JOM-20 Final Programme/ Registration

Supported by: American Welding Society AWS, Cranfield University, Brazilian Welding Society ABS, Danish Welding Society DSL, FORCE Technology, Japan Welding Society JWS, TWI, University of Liverpool, University of Wollongong.

Organizing team: Bill Lucas, Vladimir Ponomarov, John Norrish and Osama Al-Erhayem

For further information please contact:

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Conference Focus

The JOM series of biennial International Conferences & 'know how' Exhibition in Welding Technology go back five decades to the nineteen seventies.

The JOM Conference is unique in that it is dedicated to the advancement of joining and material technologies and fabrication techniques in all the key industry sectors.

As the latest R & D results and recent industrial applications will be presented, participation in the conference technical programme will be essential for those engineers wishing to advance their knowledge as part of Continuing Professional Development (CPD).

More recently, training, qualification and certification of welding personnel have become increasingly important. The implementation of recent knowhow through Education and Training is now a key part of modern welding technology. Thus, this topic is also a key JOM Conference focus.

Publication of the Conference Papers

The JOM 20 Conference Proceedings will be assigned an ISBN number for publication (JOM ISSN: 2246-0160).

The Conference and Exhibition Venue, Registration and Accommodation:

The Conference venue as well as accommodation and the exhibition all take place at the scenic Konventum, LO-Skolen in Helsingør, the same Conference venue for the hitherto JOM Conferences. The Conference Venue has excellent facilities and cuisine at reasonable cost. With easy access from Copenhagen airport (by rail), the venue offers an outstanding location on the Danish coast.

Your address during the JOM –Conference

Konventum LO-Skolen Conference Center.
Gammel Hellebækvej 70
DK-3000 Helsingør
Denmark

How to reach the JOM 20 Conference Venue in Helsingør-Denmark

1. Arriving Copenhagen by air, Airport- KASTRUP

From Kastrup the train travels directly to Helsingør, with no change of train. This is a cheap and frequent service which terminates at Helsingør.

The distance from the airport to Helsingør is approximately 70 km and travel time by train around 90 minutes. You need to purchase the train ticket at the airport using Danish Kroner (DK). Costs for single journey to Helsingør is approximately 90 DK [15 USD]. Money can be exchanged at the airport.

The Conference Venue (Konventum LO-Skolen Conference Center) is only a few km from Helsingør station. Take either a taxi or the bus to **HELLEBO PARK** which is next to the building (one block) of the LO-Skolen. Alternatively, walk to the venue (20 minutes).

Should you prefer a taxi from the airport to the Conference Venue Konventum LO-skolen in Helsingør, the cost will be around 900 DK [150 USD].

2. Arriving Copenhagen by train- Copenhagen Main Railway Station

The trains between Copenhagen and Helsingør are frequent. After arrival at Helsingør station, please follow the options described above.

FREE ACCESS AT LO-SKOLEN TO INTERNET THROUGHOUT YOUR STAY.

WISHING YOU AND YOUR ACCOMPANYING PERSON A PLEASANT JOURNEY TO DENMARK AND TO HELSINGØR!

The Programme Outline

☒ Sunday, May 26 th :	14.00-22.00 20.00	Arrival of delegates and registration Informal Gathering, Dinner and beverages
☒ Monday, May 27 th :	08.30 - 12.00 12.00 - 13.00 13.00 - 17.15 18.00	Technical Sessions Lunch Technical Sessions Dinner
☒ Tuesday, May 28 th :	08.30 - 12.00 12.00 - 13.00 13.30 - 18.00 19.30 - 23.00	Technical Sessions Lunch Social event (accompanying cordially invited) Jubilee Dinner
☒ Wednesday, May 29 th :	08.30 - 12.00 12.00 - 13.30	Technical Sessions Lunch and Farewell

JOM 20 REGISTRATION:
Please complete and mail/send to JOM
jom_aws@post10.tele.dk

Participant Details:

☒ Name/Address: _____

Fees and accommodation costs:

☒ Delegate (Fee, incl. single room from May 26 to May 29, 2019, all meals) Konventum in Helsingør	8.900 DKK
☒ Accompanying person (incl. social event and all meals) (No registration fees for accompanying persons)	2,900 DKK
☒ Discount for JOM Members	- 500 DKK
☒ Discount for registered students	- 1.900 DKK

Total Danish Kroner: _____

Payment:

Please transfer the fees and accommodation costs to JOM-Institute at Registration.

JOM-Institute bank information:

Danske Bank, Denmark. IBAN account: DK0830003172121683.
BIC(SWIFT) DABADKKK.

Request for further information please contact
JOM, Gilleleje Strandvej 28. DK-3250 Gilleleje. DENMARK,
Telephone: +45 28728055. E-Mail: jom_aws@post10.tele.dk

The JOM 20 Sessions and papers:

Each session will be chaired by two experts. Their task will be to kick off the session including presentations of the relevant papers. All participants will be invited to take part in discussion and debate at the end of the session..

The JOM 20 Conference sessions and Papers

Monday May 27

Session1, 0830-12.00. Introduction, Computers in welding, digitisation and Industry Welding equipment developments

Chair: John Norrish and Lars Erik Stridh

- **40 Years JOM Conferences, Osama AL-ERHAYEM**
- **The history and current status of computers in welding, Bill LUCAS, Jeremy SMITH**
- **Welding 4.0 and Weld Database Management. Andreas PITTNER**
- **Recent changes to ISO 15614-1 and their implications. Marcello CONSONNI**
- **Digital and programmable power source control – benefits and Limitations. Jesper SKOVFO**

Session 2, 13.00-15.00, Digitisation in welding education and vocational training

Chair: Kai Treutler, Mads Jensen

- **Education, Economy and competitiveness Lars-Erik STRIDH**
- **VR Vocational training system, Allan GRAY**
- **Virtual Reality in Welding. Josef KREINDL**
- **Digitisation in Quality Management. Boyan IVANOV**

Session 3. 15.30-17.15 Robotics and Additive Manufacture. Improvements in robot programming for small batch production and developments in welding based additive manufacture

Chair: Janez Tusek, Vinod Kumar

- **Robot programing CAD or 3D scan to finished part. J.NORRISH, Larkinet al**
- **Robotic wire arc additive manufacture for production and repair. Binato Wu, Zeng Xi Pan, J. NORRISH et al**

▣ WAAM progress at CU. Martina FILOMENO

▣ Multi-material design in welding arc additive manufacture. Kai TREUTLER

Tuesday May 28.

4. Session 08.30-12.00, Sensors and on line monitoring

Chair: Stephan Egerland, John Dowden

▣ **Technology and Data Management in Welding Production and Training systems.**
Lincoln Electric USA, Jason SCALES

▣ **Data analysis, quality control and diagnostics for legacy welding equipment.**
Julian TAPP

▣ **Monitoring and control of the Arc Plasma and heat input in WAAM.** Sven GOECKE

▣ **Thermal Sprayed Coatings by Laser-Assisted Heat Treatment for High-Durability Continuous Casting Molds.** Eunjoon CHUN

▣ **Digitisation and computer interfaces for NDE.** Ulf LARSEN

Wednesday May 29.

5. Session . 08.30-11.00 Quality Management ,Inspection and weldability

Chair: Sven Goecke, Vladimir Glouchenkov

▣ **Analysis of the welds on the dies for die casting.** Janez TUSEK

▣ **Developing a user friendly platform for in service inspection of nuclear power plant welds.** Hassan SHAABAN

▣ **Metallurgical and micro hardness studies of ferritic stainless steel welds.** Pradeep KHANNA.

▣ **Effect of preheat and inter pass temperature on alloy 625 cladding.** Vinod KUMAR

▣ **Safety of work on Electrical equipment - Reliability of application of a Bimetallic Electrode of new design and Technology.** Vladimir GLOUCHENKOV

6. Session: 11.15-12.00, Conclusions

Chair: Bill Lucas, John Norrish and Osama Al-Erhayem

***Please notice:** Eventually changes in the programme will be communicated at the registration desk*