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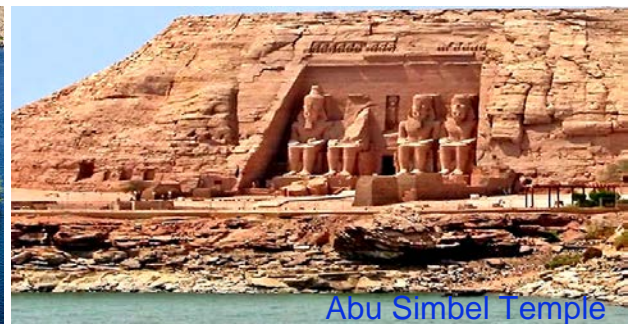
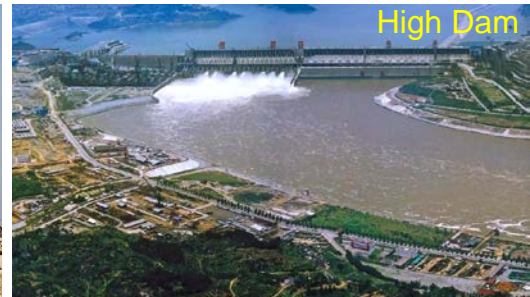
4TH INTERNATIONAL CONFERENCE

“WELDING AND FAILURE ANALYSIS OF ENGINEERING MATERIALS” (WAFA-2018)

November 19-22, 2018

Aswan, Egypt

www.wafa-egypt2018.org
info@wafa-egypt2018.org



Organized by

Central Metallurgical Research and Development Institute (CMRDI), **Egypt**
Joining and Welding Research Institute (JWRI), Osaka University, **Japan**
Faculty of Engineering, Cairo University

SUPPORTING ORGANIZATIONS



GENERAL INFORMATION

Started in 2011, the International Conference on Welding and Failure Analysis is today the main international conference on welding, failure analysis and trouble shooting in different industrial sectors. The first was held in Luxor in 2011 since then, it has provided an international forum for highlighting individual and national accomplishments in the fields of welding, failure analysis and structural integrity. Egypt will host the 4th International Conference on Welding and Failure Analysis in 2018 (**Wafa-2018**). **The aim of this International Conference (Wafa-2018)** is the continuation of successful series of International Conferences that have been held in Egypt and Japan. **Wafa-2018** will bring together world-class researchers, users and specialists involved in all aspects of welding, inspection, performance, failure analysis and prevention from different fields including materials science, mechanical, manufacturing, aeronautical, civil, chemical, corrosion and design engineering.

Wafa-2018 will promote the exchange of experience and provide a forum for researchers and engineers from different countries to present their accomplishments and to develop new ideas at the highest level. **International Conferences** have an important role to play in the technology transfer, especially in terms of the relationships to be established between the participants, and the informal exchange of ideas that **Wafa-2018** offers. **This International Conference (Wafa-2018)** offers an important opportunity that must be taken for experience exchange and technology transfer.

CONFERENCE HIGHLIGHTS

The International Conference on Welding and Failure Analysis (Wafa-2018) will link the worlds of academia and industry for an outstanding exchange of authoritative research, technical applications, and novel solutions. **Wafa-2018** will focus on all aspects of welding, inspection, failure analysis and structural integrity with the objective of improving the safety and performance of engineering structures and their associated materials. Through presentations of scientific research, plenary sessions, discussions and an exhibition of today's latest products and service solutions, the researchers, scientists, engineers and academicians will gain useful knowledge and valuable contacts to advance their work.

CONFERENCE TOPICS

The conference will include both oral and poster presentations covering the following topics:

- **Materials properties and evaluation**
- **Arc and laser beam cutting**
- **Fusion arc welding**
- **Laser and electron beam welding**
- **Solid state and friction stir welding**
- **Soldering and brazing**
- **Non-metals joining**
- **Laser materials processing**
- **Cracking phenomena**
- **Residual stresses and distortion**
- **Inspection and quality assurance**
- **Service behavior of welded structures**
- **Failure analysis and trouble shooting**
- **Case studies of failures in different industrial sectors**
- **Fracture mechanics**
- **Creep and fatigue damage**
- **Environmentally assisted damage**
- **Reclamation and repair welding**
- **Emergency maintenance**
- **Role of NDT and preventive maintenance in failure avoidance**
- **Prediction of remaining lifetime**
- **Modeling and computer programs**

VENUE

The Conference will be held at Pyramisa Isis Island Resort in Aswan city, the heart of the ancient frontier of Pharaonic Egypt, from where the stones used to build the Obelisks and Pharaonic Temples came. Aswan, the biggest town in upper Egypt, is located 900km south of Cairo where tourists flock from all over the world to the major archaeological finds in this unique city.



The impressive panorama of the area promises an unforgettable experience.
(For the Conference Special Rate: dossama@pyramisaegypt.com)

IMPORTANT DATES

- Submission Deadline for Abstract **August 31, 2018**
- Notification of Acceptance of Abstract **September 5, 2018**
- Submission Deadline for Full Paper **September 20, 2018**
- Notification of Acceptance of Paper **September 30, 2018**

Papers should have a maximum of 8 pages including figures and tables (typed single spaced on 8.5x11 sheets, single column, Times New Roman 11 font), to be send by e-mail: “info@wafa-egypt2018.org”

CONFERENCE LANGUAGE

English

SOCIAL PROGRAM

Post conference trips will be arranged upon request to other attractive sites and cities including Abu Simbel Temple, Cairo and Luxor. Details will be uploaded on the conference website (www.wafa-egypt2018.org).

REGISTRATION FEES

	Until October 15, 2018	After October 15, 2018
Participant	650 Euro	700 Euro
Accompanying Person* / Undergraduate Student	300 Euro	350 Euro

Registration fees for participants include:

- 1- Admission to all conference sessions and commercial exhibition
- 2- Conference bag including relevant materials
- 3- Hard bound volume of abstracts and a CD with full papers
- 4- Reception dinner
- 5- Lunches and coffee breaks (4 days)
- 6- Conference banquet (Dinner)
- 7- **Sightseeing program** to most significant archaeological/famous sites in Aswan including High Dam, Lake Nasser, Nubian Museum/Village, Kom Ombo Temple, Unfinished Obelisk, Botanical Island, Sound & light show at Philae Temple.

* **Registration fees for accompanying person include lunches, reception dinner, conference banquet and the sight-seeing program.**

- **Payment to be made by bank transfer to National Bank of Egypt:**

Swift: NBE GEGCX151

AC: 15130 6064 8948 100010

Account Name Holder: Egyptian Society for Laser Industrial Applications (ESLIA)

EXHIBITION of related activities will take place at the conference site (fee: 1000 Euro for 4m² area).

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Prof. Taha MATTAR
President, Central Metallurgical R & D Institute (CMRDI),
Ministry of Higher Education and Scientific Research, Egypt
Phone: +20 100 130 1230 Email: tahamattar@yahoo.com

CONFERENCE CO-CHAIRMAN

Prof. Hidetoshi FUJII
Joining and Welding Research Institute (JWRI),
Osaka University, Japan
Phone: +81-6-6879-8643 E-mail: fujii@jwri.osaka-u.ac.jp

CO-CHAIRS

Prof. Mohamed MEGAHED,
Faculty of Engineering, Cairo University, Egypt
Phone: +20 122 739 4958 E-mail: mmegahed47@gmail.com

Dr. Mimoun ELBOUJDANI, Ph.D.; FICF
Blade Energy Partners, Houston, Texas USA
Phone: +1(832)339-3693 E-mail: melboujd@blade-energy.com

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Prof. Bahaa ZAGHLOUL
Former President, Central Metallurgical R & D Institute (CMRDI),
Ministry of Higher Education and Scientific Research, Egypt
Phone: +20 100 107 0016 Email: bahaazaghloul@hotmail.com

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Prof. Abdel-Monem ELBATAHGY
Central Metallurgical R & D Institute, Ministry of Higher Education and Scientific Research, Egypt
Chairman of ESLIA
Phone: +20 122 460 8265 Email: elbatahgy@yahoo.com



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