

OREG01 2022 AOTS ONLINE PROGRAM Subsidized by the Japanese Government

Fundamentals of Threaded Metal Connections:

Alternatives to Welded Joints? Maintenance free Japanese Solution?

- For Engineers engaged in Processing Plants
- ✓ Ports and Harbors
- Railway
- Infrastructure & Engineering Industries

DATE & TIME

9:00AM-12:00PM (Cairo time) DAY 1: Tue. 15 November 2022 DAY 2: Wed. 16 November 2022 DAY 3: Thu. 17 November 2022

PARTICIPATION FEE

Free * This program will be implemented with the subsidy from the Japanese Government



LANGUAGE

English





TARGET ATTENDEES

Decision makers such as field supervisors, senior engineers and procurement professionals. Specifically for decision makers who work with installation and design processes that include the use of threaded components ("Bolted joints").

Professors and Research staff from educational institutions such as engineering universities and companies are also acceptable.

ΑΡΡLΥ ΤΟ

Please send an application form to:

AOTS Alumni Society of Egypt Mrs. Heba Hassan TEL: 0102 527 7868 Email: hebba76@yahoo.com

By 31 October, 2022



Organized by The Association for Overseas Technical Cooperation and Sustainable Partnerships in cooperation with AOTS Alumni Society of Egypt

LECTURER & Seminar Content

Mr. Kazumi Ozawa

Mr. Jayden Barnes

<u>DAY 1 & 2</u>



Dr. Soichi Hareyama (Doctor of Engineering) Visiting Researcher, former Visiting Professor, Tokyo Metropolitan University Former Part-time Lecturer: In charge of Mechanics of Materials and Advanced Mechanical Engineering, and Representative of So-Technology Former Technical Advisor, Hitachi Construction Machinery Co. and Former Chief Engineer, TCM Co.

◆ "Safe Bolted Joint Design and Fracture Failure Preventive Measures" Nuts and bolts play an important role in automobiles, electronics, machinery, aircrafts, processing plants, and many other products. in From the year 600 B.C to 400 A.C, the advancement of shipbuilding and performing arts technologies triggered the academic pursuit of the spiral and screw principle. Despite the long history of these basic machine building components, even today there is no end to the number of serious accidents caused by bolt troubles due to insufficient tightening, loosening, or lack of tensile strength. In this seminar, the lecturer will explain methodology for vibration testing of bolted joints (loosening evaluation), tensile strength evaluation, which are compiled from his extensive experience in bolted joint design and practical experience developing preventative measures against bolted joint issues for construction and industrial machinery.

DAY 3 ARDLOCK®





Bolt locking devices and Prevention strategies

Chief of Product Planning Section, Technology Development Department



Includes: Case study of related accidents Prove the Locking effectiveness with Vibration testing and Other technical data Comparison with other locking technologies and competitor products. Product variations, sizes, materials and finishes (coatings). Method of installation : Installation manual and explanation Usage Case studies: Railway, Pipeline, Harbor Equipment etc.. Improved safety, less inspections, improved operation costs.

DATE & TIME	9:00AM – 12:00PM (Egypt) *participate online from their own locations.	
DAY 1 & 2 15(Tue) & 16(Wed) NOV.	<lecture> Fundamental topics on bolted joints, history and standards, static strength of threads, relationship between external and internal forces applied to threads, fatigue strength of threads, torque method and plastic zone fastening method, observed cases of loosening and their countermeasures, design of bolted joints.</lecture>	
DAY 3 Thu. 17 NOV.	< Lecture > General overview of HARDLOCK Nut Product case studies Q&A	*AOTS certificate will be awarded for those who have completed this program with satisfaction of AOTS criteria.