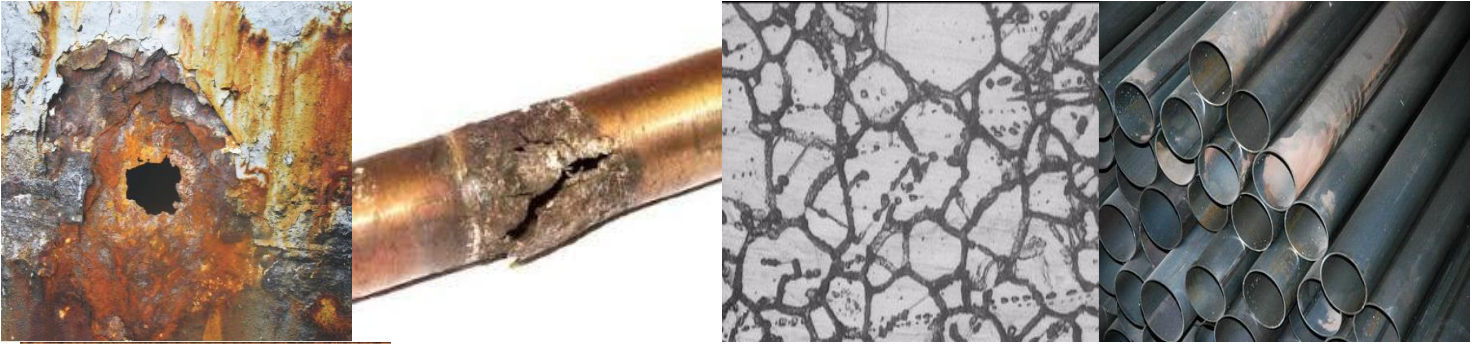


Two-days intensive training program on “Intergranular corrosion of austenitic stainless steel”



Date: 18th- 19th May 2018

Timing: 9:00 am to 6:00 pm.

Venue: Evolve - by TCR, 215 Pancham Icon, Nr. D-mart, Vasna Road, Vadodara, Gujarat.

Course Objective:

Corrosion is an integral part of engineering disciplines associated with the design, assurance and verification functions that ensure a product, process or system to meet its intended requirements. Intergranular corrosion in stainless steel material is critical factor in determining life and safe operation of the industrial components.

This course is designed to provide insights of fundamentals of intergranular corrosion, metallurgy of Stainless steel, methods of accessing Intergranular corrosion, Practical demonstration of Test methods and its applicability in industrial scenarios.

Topics to be covered:

- Fundamentals of intergranular corrosion
- Causes and forms of corrosion.
- Classification of stainless steels and microstructures.
- ASTM A262 Practice A—Oxalic Acid Etch Test
- ASTM A262 Practice B—Ferric Sulfate-Sulfuric Acid Test
- ASTM A262 Practice C—Nitric Acid Test
- ASTM A262 Practice E—Copper-Copper Sulfate-Sulfuric Acid Test
- Practical demonstration of IGC Testing of stainless steel material.

Who should attend?

- Mechanical Engineers of middle management level
- QA/ QC engineers
- Maintenance / Inspection Engineers
- Process engineers/ Design engineers
- Plant Engineers / Managers
- Other Technical, Laboratory, Sales Personnel, Engineer from other disciplines
- Management and administrative staff, who needs a working knowledge and understanding of metals and their applications

Registration:

The course is limited to **25 participants** only and will be decided on first come first served basis. Interested candidates can register by filling attached registration form. The course fee includes participation, course material and stationery. Tea / coffee and working lunch will be served. Participants have to make their own arrangements for accommodation and local conveyance. The course fee is non-refundable; however, in the event of cancellation of training program by TCR for some unavoidable reasons, it will be refunded. TCR accepts the change in nomination.

Course fee:

Single participant: Rs. 10,000.00 for Indian delegates & USD 450 for Foreign Delegates.
GST @ 18.00 % applicable on above fees.

Payment mode:

Interested participants should mail/ E-mail the registration form along with DD/at par cheque in favour of “**TCR ADVANCED ENGINEERING P LTD.**” at the address mentioned in attached registration form.

Forward your Registration forms to:

Mr. Rajesh Kumar, HOD - Training
TCR Advanced Engineering Pvt. Ltd., 250/9 GIDC, Makarpura, Vadodara, Gujarat. Ph: 0265-2657233, 7574805594-96
Email: rajesh@tcradvanced.com
Mobile: +91 7574801050

Registration form can be downloaded from our website:
<http://tcradvanced.com/coursecalender.php>

For more course details, check our FB page: -
<https://www.facebook.com/EvolveTCR/>

Faculty:



Mr. Paresh Haribhakti

MD, TCR Advanced

- He has over two decades of experience in the field of metallography and microstructure examination and has solved more than 3000 industrial problems. He is pioneer in promoting in situ-metallography.

- Has intensive work experience to his credentials, solved materials engineering problems and performed failure analysis on components from petrochemical plants, oil and gas transmission pipelines, offshore structures, ships, pharmaceutical plants, food processing equipment, gas turbine engine components, and weldments.

- Served as a principal team member in conducting the study on high temperature electrochemistry of stainless steel for thermo-nuclear reactors, a project led by France along with 8 countries consortium. His command and grasp of complex engineering theory, turns into easy to understand and useable concepts to technical audience, with simple analogies, every day examples, and laymen terms to explain data and findings to clients, corporate executives, government officials or attorneys
- His research-oriented creativeness, spearheaded the development of a powerful image analysis software - Microstructure Characterizer Software (MiC). He has also developed a well-respected Chemical Composition Mapping method for identification of Dilution in Weld Zone
- He is the recipient of Gold Plaque from IIM. He is a Founder member of Metallography Society of India. He is member of the Institute of Engineers, Institute of Foundry Man, Indian Institute of Metals and Indian Institute of Welding.
- He is B.E. (Metallurgy) and M.E. (Materials Technology) from M.S. University, Vadodara.



Dr. P B Joshi

Ex-Prof & Head.
Metallurgical and Materials Engg. Dept.
M S Univ of Baroda.
Consultant, TCR Advanced

- Dr. P. B. Joshi is Professor and Ex-Head of the department of Metallurgical and Materials Engineering of The Maharaja Sayajirao University of

Baroda, Vadodara.

- He has 33 years of UG & PG teaching and research experience and 5 years industrial experience. His areas of interest are Physical Metallurgy, Alloy steels, Failure Analysis and Material Selection, Material Characterization and Powder Metallurgy. He has more than 70 research papers in journals of national and international repute and national/international conferences/seminars held in India and abroad. He is the author of a book entitled, "Materials for Electrical and Electronic Contacts" published by Science Publishers, USA. Currently he is working as a Consultant to TCR Advanced Engineering Pvt. Ltd., Vadodara.



Mr. Gopul Patel

GM, TCR Advanced

- He has an extensive knowledge of vacuum Technology and has worked as scientific officer at Department of science and technology sponsored research centre.

- He is qualified as NDT Level II in M.T., P.T., U.T. and E.T.

- He has experience of various advanced methods of material characterization and has worked extensively in the field of microscopy.
- He is actively involved in establishing new testing facilities at lab as well as on site.



Dr. Mukesh Pandya

TCR Advanced Corrosion expert

- Mukesh Pandya is Ex-DGM (Research) from Gujarat State Fertilizer Company (GSFC) Limited, India's premier fertilizer company. He is having a Ph.D in corrosion from Gujarat University.

- He has more than 25 years of

experience in corrosion evaluation, materials selection, failure investigation and online corrosion monitoring in chemical, petrochemical and fertilizer industries. He possesses in-depth knowledge on various forms of corrosion.

- His is having vast experience in conducting laboratory and field experiments on corrosion measurements as per national and international standards. He has been a member of National Association of Corrosion Engineers (NACE) USA, for 8 years.
- He has provided consultancy services to many industries in India and also successfully carried out international collaborative projects with M/s Avesta, Sweden, M/s Krupp VDM Germany and M/s Cormon UK.



Mr. Vishal Soni

In-charge – Chemical & Corrosion,
TCR Advanced

- He has more than 10 years of experience in mechanical, chemical and corrosion testing. His area of speciality is Spectro & corrosion testing

- He is well familiar with ASME/ASTM/DIN/IS codes

- He was the key person for metallurgical testing in UC Benchmarking Project of L & T.