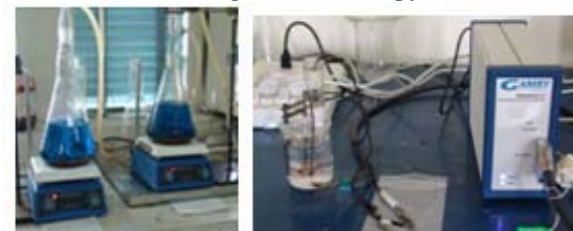




**Five Days Training Course on
CORROSION TESTING AND
EVALUATION TECHNIQUES
19 - 23 July, 2010**



SCC Testing and Microscopy



IGC Testing and Electrochemical Corrosion

Materials Division
Pakistan Institute of Nuclear Science & Technology (PINSTECH)
P.O. Nilore, Islamabad

Training Course Organizers

Patron-in-Chief: Dr. Shoaib Ahmad
Member (Physical Sciences), PAEC

Patron: Dr. Jamshad H. Zaidi
Director General, PINSTECH

Organizers:
Engr. Nisar Ahmad
Director Technology, PINSTECH
Dr. Nazar Hussain
Head Materials Division, PINSTECH
Engr. Muhammad Akram
DCE, Materials Division, PINSTECH
Dr. Ammad H. Qureshi
DCE, Materials Division, PINSTECH

Contact Persons (PINSTECH):

Course Coordinator:

Mr. Shahid Riaz Khan
HEAD HRD, PINSTECH
Email: srkhan@pinstech.org.pk
051-2207258, Fax: 051-2207374

Travel Arrangement:

Mr. Muhammad Arif
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E-Mail: arif3453@hotmail.com

Lunch / Tea Arrangements:

Mr. Gulzar Ali
P.T, MD
Ph: 051-9248801/3502-3

Registration:

Mr. Hassan Waqas
Sr. Scientist, MD
Ph: 051-2207226

Laboratory:

Mr. Farhan Karim
Mr. Muhammad Massod
Mr. Shahbaz Ahmad
Mr. Amir Alam

**Five Days Training Course on
Corrosion Testing and Evaluation
Techniques**

**Materials Division
PINSTECH, P.O. Nilore, Islamabad
19 – 23 July, 2010**

Registration Form*

Name: _____

Father's Name: _____

Date of Birth: _____

NIC No: _____

Highest Qualification: _____

Experience: _____

Designation/Post: _____

Organization/Establishment: _____

Mailing Address: _____

E-Mail: _____

Ph: Off: _____ Home: _____

Mobile: _____

Fax: _____

Signature (Participant): _____

Recommendation by Head of nominating Establishment:

Signature/Date _____

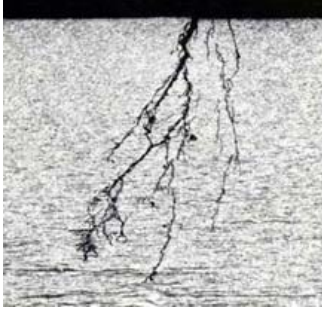
Stamp: _____

**Note: Participants from Universities/ academic institutions and other non-strategic organizations are required to submit security clearance form (copy attached) alongwith two photographs at least two weeks before the start of Course.*

INTROCUCTION

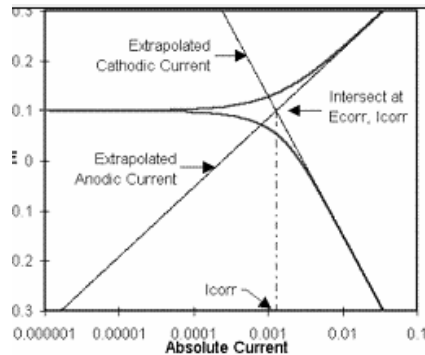
Stress Corrosion Cracking (SCC)

Stress corrosion cracking (SCC) is the formation of brittle cracks in a normally sound material through the simultaneous action of a tensile stress and a corrosive environment.



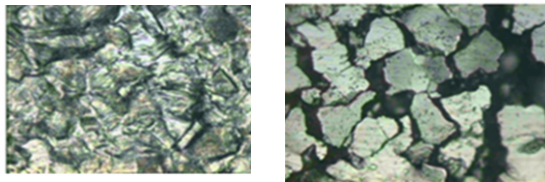
Electrochemical Corrosion

Corrosion which occurs when current flows between cathodic and anodic areas on metallic surfaces



Intergranular Corrosion (IGC)

It is caused by diffusion of chromium and trace amounts of carbon around the grain – boundaries.



OUTLINE OF THE TRAINING COURSE

Lectures

July 19-22, 2010

1. Electrochemical Corrosion (EC)
2. Stress Corrosion Cracking (SCC)
3. Intergranular Corrosion (IGC)
4. High Temperature Oxidation (HTO)

Hands on Training

July 19-23, 2010

- Sampling: EC, SCC, IGC and HTO
- Experiment: EC, SCC, IGC and HTO
- Results & Discussion

Faculty Members

- Dr. Nazar Hussain
- Dr. Ammad Hussain Qureshi
- Dr. Mazhar Mehmood (PIEAS)
- Dr. Shahid (NUST)
- Mr. Tanveer Manzoor
- Mr. Muhammad Arif
- Dr. Muhammad Shahzad
- Mr. Imran-ur-Raza Naqvi

PARTICIPANTS

Eligibility

Only Engineers / Scientists having background of Materials / Mechanical / Physics / Chemistry.

Minimum Qualification: B.E / M.Sc

Course Fee

Rs: 8000/- per participant

(Payable at registration desk by Cross Cheque in favor of PINSTECH)

Last Date for Submission

Registration Form duly recommended by the Head of Establishment should reach HRD, PINSTECH, P. O. Nilore, Islamabad before June 30, 2010.

(Soft copy of registration form is available at <http://www.sidnlps.org.pk>)

Accommodation

Participants will have to make arrangement of stay in Islamabad/Rawalpindi at their own.

Pick & Drop to PINSTECH

En-route pick & drop from Rawalpindi / Islamabad to PINSTECH will be provided.