

Short-Term Course
on
Corrosion Issues
in
Petroleum Refineries and
Petrochemical Industries

August 18– 22, 2025

Program Schedule



SPONSORED BY:



**Department of
Scientific and
Industrial Research**



RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY

An Institution of National Importance, Government of India

Jais, Amethi, Uttar Pradesh – 229 304

One-Week Short-term Course (18-08-2025 to 22-08-2025)

Day	Time Duration	Topic
Day-1 18th August 2025	09.00 AM to 09.30 AM	Registration
	9.30 AM to 11.30 AM	Program Inauguration
	11.30 AM to 01.00 PM	Introduction and types of corrosion: Relevant to refineries and petrochemical industries [Prof. V S Raja]
	01.00 PM to 01.30 PM	<i>Lunch Break+ feedback form collection</i>
	01.30 PM to 02.50 PM	Corrosion Monitoring [Prof. V S Raja]
	03.00 PM to 03.40 PM	Graphene coatings: A disruptive approach to remarkable durable corrosion resistance [Prof. Raman Singh]
	03.40 PM to 04.00 PM	<i>Tea Break+ feedback form collection</i>
	04.00 PM to 05.30 PM	Introduction of tribo-corrosion: Causes and control [Prof. Harish Hirani]
	05.30 PM to 06.00 PM	Panalytical Presentation
Day-2 19th August 2025	09.30AM to 11.00AM	Area of corrosion concern in refinery unit and troubleshooting: CDU and VDU [Mr. Ashis Nag]
	11.00 AM to 11.15 AM	<i>Tea Break</i>
	11.15 AM to 12.45 PM	Fine Challenges of CUI- A hidden threat [Dr. Deepashri D. Nage]
	12.45 PM to 1.15 PM	<i>Lunch Break+ feedback form collection</i>
	1.15 PM to 02.30 PM	Refinery boiler tubes failures [Mr. Khalid Al Subhi]
	02.30 PM to 04.00 PM	Metallic coatings for refineries (Dr. J. N. Balaraju)
	04.00 PM to 04.15 PM	<i>Tea Break</i>
	04.15 PM to 05.30 PM	Summary of API-571 damage mechanics [Mr. Khalid Al Subhi]
	5:30 PM to 6:00 PM	Carl-Zeiss Presentation
Day-3 20th August 2025	09.30AM to 11.00AM	Challenges in crude distillation unit for processing opportunities [Dr. Jaya Rawat]
	11.15 AM to 11.30 AM	<i>Tea Break</i>
	11.30 AM to 12.30 PM	Additives for tribo-corrosion prevention [Dr. Tom McCoy]
	12.30 PM to 01.00 PM	<i>Lunch Break+ feedback form collection</i>
	01.00 PM to 02.30 PM	Microbiological corrosion in hydrocarbons [Dr. Jaya Rawat]
	02.30 PM to 04.00 PM	Hands on session on corrosion modeling – COMSOL [Dr. Rustam Singh Shekhar]
	04.00 PM to 04.15 PM	<i>Tea Break</i>
	04.15 PM to 05.45 PM	Hands on session on corrosion modeling – COMSOL [Dr. Rustam Singh Shekhar]
	05.45 PM to 06.00 PM	<i>Feedback form collection</i>
Day-4 21st August 2025	09.30AM to 11.00AM	Modeling degradation modes of metallic materials in refinery environments [Dr. Narasi Sridhar]
	11.00 AM to 11.15 AM	<i>Tea Break</i>
	11.15 AM to 12.45 PM	Fundamentals of hydrogen transport and material challenges in materials [Dr. Francesco Fanicchia]
	12.45 PM to 1.15 PM	<i>Lunch Break+ feedback form collection</i>
	1:15 PM to 02.30 PM	Lab qualification test for Ammonium Chloride (NH ₄ Cl) [Mr. Ismail Al Julandani]

One-Week Short-term Course (18–08–2025 to 22–08–2025)

Day-5 22nd August 2025	02.30 PM to 04.00 PM	Environmentally Assisted Cracking in Refineries (Dr. Mariano Kappes)
	04.00 PM to 04.15 PM	<i>Tea Break</i>
	04.15 PM to 05.45 PM	Hydrogen Damage in Refineries (Dr. Mariano Kappes)
	05.45 PM to 06.00 PM	<i>feedback form collection</i>
	09.00 AM to 10.00 AM	Hands on session on corrosion modeling: MD simulation [Dr. Sumit Sharma]
	10.00 AM to 11.15 AM	Failure analysis used in Oil and Gas Refineries failures [Mr. Urvesh Vala]
	11.15 AM to 11.30 AM	<i>Tea break</i>
	11.30 AM to 12.45 PM	Advance testing used in Oil and Gas Refineries application [Mr. Urvesh Vala]
	12.45 PM to 01.15 PM	<i>Lunch + feedback form collection</i>
	01.15 PM to 02.45 PM	Finding Corrosion before it fails: Practical NDT applications in Petroleum and Petrochemical Industries [Ms. Navita Gupta]
	02.45 PM to 03.45 PM	Hydrogen Embrittlement [Dr. Alfredo Zafra]
	03.45 PM to 4.45 PM	Valedictory function + overall feedback form collection
	04.45 PM to 5.00 PM	<i>High Tea</i>



Short-Term Course on Corrosion Issues in Petroleum Refineries and Petrochemical Industries

International Speakers



Dr. Narasi Sridhar
CEO of MC Consult
LLC



Dr. Mariano Kappes
Nuclear Energy Department
Argentina



Dr. Sumit Sharma
Ohio University
USA



Dr. Alfredo Zafra
Oxford University
UK



**Dr. Francesco
Fanicchia**
Cranfield University UK



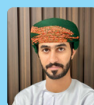
Dr. Tom McCoy
TU Delft
Netherlands



Ismail Al Julandani
OQ refineries
Oman



Khalid Al Subhi
OQ refineries
Oman



Ahmed Al Mazrouai
OQ refineries
Oman

National Speakers



Prof. Harish Hirani
Director
RGIPT



Prof. V. S. Raja
Emeritus Fellow
IIT Bombay



Dr. J. N. Balaraju
Chief Scientist & Head- SED
CSIR NAL, Bangalore



Dr. Jaya Rawat
BPCL (R&D)



Mr. Ashis Nag
Former ED
IOCL



Mr. Urvesh Vala
Larsen & Toubro



Dr. Deepashri D. Nage
HP Green R&D Centre



Ms. Navita Gupta
Director,
Satyakiran Group



Dr. Deepak Dwivedi
RGIPT

Course Coordination



Dr. Deepak Dwivedi
Programme Coordinator
+91- 9691062352