

## NACE Los Angeles Section Annual Education Weeks – January 22 to February 3, 2017 San Bernardino, California

### **BASIC CORROSION – 5 days, Monday, January 30 to Friday, February 3, 2017**

This course focuses on corrosion and the potential problems caused by corrosion. It provides a basic but thorough review of causes of corrosion and the methods by which it can be identified, monitored, and controlled. Course highlights include but are not limited to: Basics of Electrochemistry, Types of Environments, Engineering Materials, Forms of Corrosion, Corrosion Control & Prevention Methods, Testing & Monitoring Techniques. Successful completion of the Basic course may be used towards obtaining certification through the NACE Parallel Path to Certification as a NACE Corrosion Technician.

Click on the link for additional information and to register. <http://www.nace.org/cstm/education/courses/courseschedule.aspx>

### **CP3 - CATHODIC PROTECTION TECHNOLOGIST – 6 days, Sunday, January 22 to Friday, January 27, 2017**

This course is an intensive 6-day course that presents CP technology to prepare students for the NACE Cathodic Protection Technologist Certification Examination. It builds on the technology presented in the CP 2-Cathodic Protection Technician Course covering both theoretical concepts and practical application of cathodic protection with a strong focus on interpretation of CP data, CP troubleshooting and mitigation of problems that might arise in both galvanic and impressed current systems. This course is presented in a format of lecture, discussion and hands-on, in-class experiments and group exercises. The essay portion of the examination is given on the 6<sup>th</sup> day of the course.

Click on the link for additional information and to register. <http://www.nace.org/cstm/education/courses/courseschedule.aspx>

### **CP4 – CATHODIC PROTECTION SPECIALIST – 6 days, Sunday, January 29 to Friday, February 3, 2017**

This course is an intensive 6-day course that focuses on the principles and procedures for CP design on a variety of structures for both galvanic and impressed current systems. The course discusses the theoretical concepts behind the design and considerations that influence the design (environment, structure type/materials of construction, coatings), design factors, and calculations (including attenuation). The course involves lecture and in-class discussion and practice with design examples on various structures (i.e., pipelines, tanks and well casings, offshore applications and steel reinforcing in concrete structures). The essay portion of the examination is given on the 6<sup>th</sup> day of the course.

Click on the link for additional information and to register. <http://www.nace.org/cstm/education/courses/courseschedule.aspx>

### **DIRECT ASSESSMENT – 5 days, Monday, January 23 to Friday, January 27, 2017**

The Direct Assessment course will concentrate on internal, external and stress corrosion cracking direct assessment along with pre and post assessment, quality assurance, data analysis and integration, and remediation and mitigation activities. The course will also cover the benefits and limitations of Direct Assessment, its relationship to an overall integrity assessment program and industry standards, regulations and best practices. Learning objectives include: Describe DA and the relationship to an overall pipeline corrosion integrity management program • Recognize the benefits and limitations of DA • Recall industry standards related to DA • Differentiate DA from other pipeline integrity methods • Perform quality assurance • Establish corrosion rates • Explain responsibilities of the Operator and/or service provider • Categorize the DA Phases: — Pre-Assessment — Indirect Inspections — Direct Examinations — Post-Assessment — Recognize the different types of DA — External Corrosion Direct Assessment (ECDA) — Internal Corrosion Direct Assessment (ICDA) — Stress Corrosion Cracking Direct Assessment (SCCDA) — Confirmatory Direct Assessment (DA).

Click on the link for additional information and to register. <http://www.nace.org/cstm/education/courses/courseschedule.aspx>

**COURSE REGISTRATION:** Click on the link after each course description above to register or <http://www.nace.org/Training-and-Education/Courses-by-Program/> for additional information. \*To qualify for savings, advanced registration payment must be received at NACE Headquarters at least 35 days before the start of the course.

**CLASS LOCATION:** TINKER & RASOR, 791 South Waterman Avenue, San Bernardino, CA 92408.

**HOTEL RESERVATION:** Students are responsible for **hotel reservations**. Lodging reservations can be made at Residence Inn by Marriott, 1040 E. Harriman Place, 909-382-4564 OR at Doubletree by Hilton at 285 E. Hospitality Lane, San Bernardino, 909-889-0133. Additional hotels and motels are available in the area.

Contact Sylvia Hall ([Sylvia.Hall@SHEngineering.expert](mailto:Sylvia.Hall@SHEngineering.expert)) or any Section Board Member for additional information.

SEE NACE LOS ANGELES SECTION ACTIVITIES AND EVENTS AT [www.nace-losangeles.org](http://www.nace-losangeles.org). Please Share with a Friend.