

Monday, May 14		General Chairman - Tim Jenkins												Monday May 14															
10:00 AM - 5:00 PM Pre-Registration Walk-in Registration		2:00 PM - 6:00 PM NACE Technician Review Course J. McLawhorn Eng. Sci. Bldg. Room G-39				3:00 PM - 5:00 PM Outdoor Clinic L. Pinto / J. Kulczyk / J. Girt Agricultural Annex Building - Grass Court Yard				6:00 PM - 8:00 PM Basic Electricity T. Perkins Engineering Science Building Room G-39																			
<b>Tuesday, May 15 @ 8:30 AM - General Assembly - Ag. Sci. Bldg. Room 1021</b>																													
Welcome by General Chairman, Tim Jenkins - Program and Schedule Changes - Feature Slide Presentation, J. Fitzgerald III																													
Hall Monitors needed		Jim Delahoyde				Jim Delahoyde				Pipeline Integrity Management*		Technology Today		Internal Corrosion		Water & Wastewater		System Diagnostics		Outdoor Workshop (weather permitting)		What's New							
Fundamentals*		Basic*				Intermediate				Advanced				Coatings															
Time	Period	R. Sperling Law Building Rm. 157		G. Rhodes Room 153 Law Building		Room 154		Eng. Sci. Room G-102		J. Warner Eng. Sci. Room G-39		J. Otto Law Building - Court Room		Jeff Didas Mineral Res. Bldg. 109		T. Cairns Mineral Res. Bldg. 205		Mark Linville ESB 207		R. Fullineer Eng. Sci. Bldg. G-83		Don Schumacher Eng. Sci. Bldg. 801		J. Block Eng. Sci. Bldg. G-84		A. Kulczyk At. Annex Bldg		Room 107	
9:45 to 10:45 AM	1	Fundamentals of Corrosion Mathematics and Electricity		Basic Electricity		Basic Electricity		Corrosion Cells in Action Eng. Sci. Room G-102		Pipe to Soil Potential Surveys and Analysis		Fundamentals of Pipeline Coatings		Pipeline Integrity and Standards		In-Line Inspection Data Interpretation		Federal Corrosion Control Regulations		The Basics of Corrosion & Control		Troubleshooting Cathodic Protection Rectifiers		Pipe & Cable Locating Buried Structures		What's New in Instrumentation Tuesday, May 15, 1:30 - 2:30 Eric Bonner Dennis Carenza			
11:00 AM Noon	2	R. Row Pipeline Locating				Installation of Galvanic Anodes		Installation of Galvanic Anodes		QA/QC on Coating Inspection and Instrumentation		Data Integration		Transmission Pipeline Repair Methods		IC Mechanism & Storage Field Design		Coatings 101				Outdoor @ Agricultural Annex		What's New in Anodes & Electrodes Tuesday, May 15, 2:45-3:45 Eric Bonner Dennis Carenza					
11:AM to 1:PM	<b>Exhibits - Tuesday, May 15 - 11:00 AM - 1:00 PM &amp; 5:00 PM - Shell Building</b>																												
1:30 to 2:30 PM	3	Fundamentals of Corrosion		Corrosion Fundamentals		Corrosion Fundamentals		Installation of Impressed Current Cathodic Protection Systems		Installation of Impressed Current Cathodic Protection Systems		Continuation of Periods #1 & #2		Field Coating with Shrinkable Sleeves		ECDA Indirect Inspection Tools CIS		Foreign Contacts & Pipe Fault Surveys		Basic Pipe Inspection, Sampling, and Monitoring		Economics of Cathodic Protection		Cathodic Protection for Above Ground Storage Tank Bottoms		Impressed Current System Hands-On Workshop		What's New in Accessories Tuesday, May 15, 4:00-5:00 Dennis Carenza	
2:45 to 3:45 PM	4	Class runs to 3:10 J. Otto 15 minute break		Criteria For Cathodic Protection		Criteria For Cathodic Protection		Criteria For Cathodic Protection		Materials For Cathodic Protection				IMR Risk Assessment, ICDA Methodology, and ICDA Tools		Planning & Executing a Pipeline Rehabilitation		IC Risk Assessment, ICDA Methodology, and ICDA Tools		Corrosion Control of Ductile Iron Pipe		Corrosion & Failure Analysis of Electric Towers and Grid		Output • On/Off CIS • Interference • Polarization					
4:00 to 5:00 PM	5	Introduction to Cathodic Protection Class starts at 3:25 Tom Williams		Corrosion Control Methods		Corrosion Control Methods						Amphitheater (GRASSY KNOLL)		Using Digital X-Ray to Identify Corrosion				Extending the Life of Existing Water Main				Outdoor @ Agricultural Annex		Mathematics Tuesday, May 15 7:00 PM - 9:00 PM ESB Room G-83 R. Row					
7 to 9 PM	<b>Corrosion Mathematics - Tuesday, May 15 - 7:00 PM - 9:00 PM - ESB G83 - R. Row</b>																												
8:30 to 9:30am	6	Pipeline Electrical Isolation Methods		Introduction to Pipeline Coatings		Introduction to Pipeline Coatings		Corrosion Control for Pipelines		Corrosion Control for Pipelines		Evaluation of Underground Coatings Using Aboveground Techniques		Fusion Bond Coatings and Mill Inspection Techniques		AC Corrosion Standards, Methods and Tools		Testing for Chemical Selections/ Application and Misapplication		Corrosion Control Monitoring		Electrical Isolating Devices for Pipelines		ECDA Indirect Inspection Field Simulation		Corrosion			
9:45 to 10:45 AM	7	Fundamental Introduction to Pipeline Coatings		Potential Measurements		Potential Measurements						Critical Application Steps with 2 Part Epoxies		Direct Assessment for Cased Pipe		Decoupler Applications & Considerations When Taking Instant-Off Reads on a Decoupled PI		IC Mitigation		Corrosion Failures in the Water & Wastewater Industry		Troubleshooting Distribution Systems		Outdoor @ Agricultural Annex		ACVG-CIS-DCVG Current Attenuation			
11:00 AM Noon	8	Fundamentals of Rectifier Monitoring		Static Stray Current Interference Testing		Static Stray Current Interference testing		Static Stray Current Interference testing		Dynamic Stray Current Analysis		Coating Selection for Underground Service		Atmospheric Corrosion Integrity Management		Lighting & Over-voltage Protection for P/L		IC Case Study		Continuation of Period 7		Eric Bonner T. Williams		M. DeNicola/J. Walton J. Quirk/J. Block		Exhibits Wednesday May 16 11:00 AM - 1:00 PM 5:00 PM to 6:30 PM Shell Bldg			
11:AM to 1:PM 5PM to 6:30	<b>Exhibits - Wednesday, May 16 - 11:00 AM - 1:00 PM &amp; 5:00 PM - 6:30 PM - Shell Building</b>																												
1:30 to 2:30 PM	9	Introduction to Pipe-to-Soil Potential Measurements		Resistance Measurements		Resistance Measurements		Continuation of Period #8		Continuation of Period #8		Design of Impressed Current Cathodic Protection Systems		Evaluation & Selection of Directional Drill Pipe Coatings		Difficult To Pig Pipelines		Technical Aspects of Close Interval Surveys-CIS		Overall Internal Corrosion Integrity Management		Corrosion Control for Water Storage Tanks		Understanding the Reference Cell		Open Rain Date Outdoor @ Agricultural Annex		Wednesday May 16	
2:45 to 3:45 PM	10	Current Flow Measurement		Current Flow Measurement		Current Flow Measurement		Troubleshooting Cathodic Protection Systems		Troubleshooting Cathodic Protection Systems		Managing an Aboveground Coatings Program		Corrosion Control at MSR Stations and Delivery Facilities		Corrosion Control at MSR Stations and Delivery Facilities		Preventing Corrosion of Steel Water Pipe		Installing Corrosion Control in Water Storage Tanks		Field Tests For Shored Casing		Open Rain Date Outdoor @ Agricultural Annex		7:00 PM - 9:00 PM - Min Res Bldg 113			
4:00 to 5:00 PM	11	Workshop		Workshop		Workshop		Design of Galvanic Cathodic Protection Systems		Design of Galvanic Cathodic Protection Systems		Coating Failures Case Histories		Direct Inspection		Modern Tools for Indirect Inspections for DA and Beyond		Preventing Corrosion of Steel Water Pipe		Preventing Corrosion of Steel Water Pipe		Please bring meter to class		Auditorium		K. Garrity, Moderator			
7:PM to 9:PM	<b>Roundtable - Wednesday, May 16 - 7:00 PM - 9:00 PM - Law Building - Court Room - K. Garrity, Moderator</b>																												
8:30 to 9:30am	12	Voluntary Test Fundamentals		Record Keeping		Record Keeping		Rectifier Maintenance Room G-102		MIC Inspection & Testing		Field Applied Coatings Course 2 Outdoor Clinic Corner		Corrosion Regulations DOT/PHMSA Perspective		Interference Issues AC Interference Case History		Vacant		Workshop Instrumentation & Measurement for CP Systems: Pipe-to-Soil		Advanced Rectifier Workshop		Workshop Instrumentation & Measurement for CP Systems: Pipe-to-Soil		Voluntary Testing			
9:45 to 10:45 AM	13	Law Building Room 157		M. Tarhon Kevin Klausmeier		R. Graesser		D. Krause		K. Garrity		Grassy Knoll		J. Maitach		M. Placzek		Vacant		Soil Resistivity Calibrate IR Drop Pipe/Cable Locate Pipe Inspection & Repair Technique		Indoor Workshop Limited		Basic Intermediate Advanced					
11:00 AM Noon	14	R. Sperling Workshop		Voluntary Test Basic		Voluntary Test Intermediate		Engineering Science Building Room G-39		Law Building Court Room		Law Building Court Room		Assessment of Casing Filler Effectiveness		Cost Savings in Integrity and GIS Collection		Vacant		Please bring meter to class		C.M. Nelson		Periods 13 and 14					

Additional copies of this brochure may be obtained from Danielle Petrak Operations Coordinator, WVU CEMR, PO Box 6070 Morgantown, WV 26506 Phone:304 293 4307 Fax: 304 293 5708 danielle.petrak@mail.wvu.edu  
 For more information, please visit our Web Site: www.aucsc.com