| oarker         |                            |  |  |  |   |   |   |   | 2014 AUCSC  | CLASS IND   | EX  |  |  |   |   |   |
|----------------|----------------------------|--|--|--|---|---|---|---|---|---|---|--|--|---|---|---|
| parker         |                            |  |  |  |   |   |   |   |   |   |   |  |  |   |   |   |
| Monday, May 12 |                            | 2:00 pm-6:00 pm NACE Corrosion Technician Exam – Review Session                                    |  |  |   |   |   |   |   |   |   |  |  |   |   |   |
|                |                            | Location ESB G39 Instructor J. McLawhorn   |  |  |   |   |   |   |   |   |   |  |  |   |   |   |
|                |                            | 3:00 pm-5:00<br>pm   |  |  |   |   |   |   | Outdoor Cli   | nic – AS Annex  |   |  |  |   |   |   |
|                |                            | Instructor   |  |  |   |   |   | Pinto/Kulc  | czyk/McWilliams/Cairns/S  | Scott/Girt/Roberts/Mayfie   | ld/Williams   |  |  |   |   |   |
|                |                            | 6:00 pm-8:00<br>pm   | Pm Basic Electricity   |  |   |   |   |   |   |   |   |  |  |   |   |   |
| 2              |                            | Location ESB G39 Instructor T. Perkins   |  |  |   |   |   |   |   |   |   |  |  |   |   |   |
|                |                            | 8:30 am-9:30<br>am   |  |  |   |   |   |   |   |   |   |  |  |   |   |   |
|                |                            | •  |  |  |   |   |   |   |   |   |   |  |  |   |   |   |
|                |                            |  | Fundamentals   | Basic  |   | Intermediate Chair: T. Conner   |   | Advanced  | Coatings  | Pipeline Integrity<br>Management  | Technology Today  | Internal Corrosion   | Water & Wastewater   | System Diagnostics  | Outdoor Workshop  | What's New  |
| -              |                            | ub-Chair<br>ocation  | Chair: B. Sperling<br>LAW 157  | LAW 153  | S. Rhodes<br>LAW 154  | ESB G102  | ESB G39   | Chair: J. Otto<br>MRB 113   | Chair: J. Didas<br>MRB 109  | Chair: T. Cairns<br>MRB 205   | Chair: M. Linville<br>ESB G84   | Chair: K. Bowman<br>ESB G83  | Chair: D. Schumacher<br>MRB 105  | Chair: J. Block<br>MRB 107  | Chair: J. Kulczyk AS Annex  | Chair: D. Carenza<br>MRB 209                                  |
| 13             | Period 1                   | 9:45 am-10:45 am   | Fundamentals of Corrosion<br>Mathematics and Electricity   | Basic Electricity  | Basic Electricity   | Corrosion Cells in  | Action (ESB G-102)  | Pipe-to-Soil Potential<br>Surveys and Analysis  | Fundamentals of Pipeline<br>Coatings  | Pipeline Integrity and Standards  | In-Line Inspection and Data<br>Interpretation   | Introduction to Internal<br>Corrosion  | Corrosion and Corrosion<br>Protection in the<br>Water/Wastewater Industry  | Troubleshooting Cathodic Protection Rectifiers  | Pipe & Cable Locating<br>Buried Structures (Outdoor<br>@ AS Annex)  | What's New in<br>Instrumentation                              |
|                |                            | Monitor  | B. Marshall  | S. Bracy   |   |   | onner   |   | S. Quinn  |   |   | K. Ray   |  | L. Byrge  |   |   |
|                |                            | Instructor   | R. Row   | T. Jenkins   | J. Bushman  | K. La   | wson  | K. Garrity  | J. Didas  | L. Reynolds   | B. Deaton   | B. Terrien   | P. Rothman   | C.M. Nelson   | Walten/Block/ScottReardon/Vergs   |   |
|                | Period 2                   | 11:00 am-Noon  | Pipeline Locating  | Basic Electricity (cont'd)   | Basic Electricity (cont'd)  | Installation of Galvanic<br>Anodes  | Installation of Galvanic<br>Anodes  | Pipe-to-Soil Potential<br>Surveys and Analysis<br>(cont'd)  | Coating Failures Case<br>Histories  | Data Integration  | Transmission Pipeline<br>Repair Methods   | Pipe Inspection  | Condition Assessment of<br>Underground Pipelines   | Troubleshooting Cathodic<br>Protection Rectifiers<br>(cont'd)   | Pipe & Cable Locating<br>Buried Structures (Outdoor<br>@ AS Annex) (cont'd)   | What's New in Anodes and<br>Electrodes                        |
|                |                            | Monitor  | J. Williams<br>G. Lomax  | S. Bracy<br>T. Jenkins   | J. Bushman  | W Young   | T. Conner   | K Corritu   | S. Quackenbush<br>M. Conner   | T. Cairns<br>E. Nicholson   | T. Shamblin<br>R. Shoaf   | D. Adams   | G. Walker<br>M. Tarlton  | L. Byrge<br>C.M. Nelson   | Water Plant Frank Control Control   |   |
|                |                            |  |  |  |   |   |   |   |   |   |   |  |  |   |   |   |
| Мау            | Exhibits                   | 11:00 am-1:00 pm   |  |  |   |   |   |   | EXHIBITS—SH   | HELL BUILDING   |   |  |  |   |   |   |
|                | Exhibits Period 3          | 11:00 am-1:00 pm<br>11:30 pm-2:30<br>pm  | Fundamentals of Corrosion  | Corrosion Fundamentals   | Corrosion Fundamentals  | Installation of Impressed<br>Current Cathodic<br>Protection Systems   | Installation of Impressed<br>Current Cathodic<br>Protection Systems   | Pipe-to-Soil Potential<br>Surveys and Analysis<br>(cont'd)  | EXHIBITS—SI   | ECDA Indirect Inspection Tools - CIS  | Foreign Contacts and Pipe<br>Fault Surveys  | NDT Methods  | How to Provide Indefinite<br>Life in Metallic<br>Transmission Pipelines  | Corrosion and Failure<br>Analysis Electric Tower<br>and Grids   | Impressed Current System<br>Hands-On Work Shop<br>(Outdoor @ AS Annex)  | What's New in Accessories                                     |
|                |                            | 1:30 pm-2:30 pm  | Class runs to 3:10  J. Williams  | S. Quackenbush   | J. Empric   | Current Cathodic<br>Protection Systems<br>D. Cutlip   | Current Cathodic<br>Protection Systems<br>M. Choi   | Surveys and Analysis<br>(cont'd)  | Field Coatings with<br>Shrinkable Sleeves<br>E. Bonner  | ECDA Indirect Inspection<br>Tools - CIS   | Fault Surveys   | B. Deaton  | Life in Metallic<br>Transmission Pipelines   | Analysis Electric Tower and Grids   | Hands-On Work Shop<br>(Outdoor @ AS Annex)  | What's New in Accessories                                     |
|                |                            | 1:30 pm-2:30<br>pm   | Class runs to 3:10   |  |   | Current Cathodic<br>Protection Systems  | Current Cathodic<br>Protection Systems  | Surveys and Analysis  | Field Coatings with<br>Shrinkable Sleeves   | ECDA Indirect Inspection<br>Tools - CIS   |   |  | Life in Metallic   | Analysis Electric Tower   | Hands-On Work Shop  | What's New in Accessorier                                     |
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|                | Period 3                   | 1:30 pm-2:30 pm  Monitor Instructor  2:45 pm-3:45 pm  Monitor                                      | Class runs to 3:10 J. Williams J. Otto (15 minute break) Introduction to Cathodic Protection (Class starts at 3:25PM)  | S. Quackenbush D. Krause  Corrosion Fundamentals (cont'd)  B. Marshall                                     | J. Empric J. Fitzgerald  Corrosion Fundamentals (cont'd)  | Current Cathodic Protection Systems  D. Cutlip J.Burns  Criteria For Cathodic Protection  L. Byrge  | Current Cathodic Protection Systems  M. Choi J. Sapp  Criteria For Cathodic Protection T. Conner  | Surveys and Analysis (cont'd)  K. Garrity  Materials For Cathodic Protection  G. Walker   | Field Coatings with<br>Shrinkable Sleeves  E. Bonner  J. Wink  Field Applied Coatings<br>Outdoor Clinic<br>(Amphitheater)   | ECDA Indirect Inspection Tools - CIS  B. Benson T. Jenkins  ECDA Indirect Inspection Tools - DCVQ/ACVQ Current Attenuation B. Benson  | Fault Surveys  M. Byerley  Planning and Executing a Pipeline Rehabilitation  T. Shamblin                                      | B. Deaton S. Lébsack Field Sampling and Testing  | Life in Metallic Transmission Pipelines  R. Brown  Economics of Cathodic Protection  K. Ray  | Analysis Electric Tower and Grids  Dr. Zamanzadeh  Understanding the Reference Cell   | Hands-On Work Shop<br>(Outdoor @ AS Annex)  PintofMcWilliams/Kulczyk/Girt  Impressed Current System Hands-On Workshop (Outdoor @ AS Annex) (con'd)  | Practical Application on                                      |
|                | Period 3                   | 1:30 pm-2:30 pm  Monitor Instructor  2:45 pm-3:45 pm   | Class runs to 3:10  J. Williams  J. Otto  (15 minute break) Introduction to Cathodic Protection (Class starts at   | S. Quackenbush D. Krause  Corrosion Fundamentals (cont'd)  | J. Empric J. Fitzgerald Corrosion Fundamentals  | Current Cathodic Protection Systems  D. Cutlip J.Burns  Criteria For Cathodic Protection  | Current Cathodic Protection Systems  M. Choi J. Sapp  Criteria For Cathodic Protection  | Surveys and Analysis (cont'd)  K. Garrity  Materials For Cathodic Protection  | Field Coatings with<br>Shrinkable Steves  E. Bonner  J. Wink  Field Applied Coatings Outdoor Clinic   | ECDA Indirect Inspection Tools - CIS  B. Benson T. Jenkins  ECDA Indirect Inspection Tools - DCVG/ACVG Current Attenuation  | Fault Surveys  M. Byerley  Planning and Executing a Pipeline Rehabilitation   | B. Deaton<br>S. L <del>é</del> bsack   | Life in Metallic Transmission Pipelines  R. Brown  Economics of Cathodic Protection  | Analysis Electric Tower and Grids  Dr. Zamanzadeh  Understanding the  | Hands-On Work Shop<br>(Outdoor @ AS Annex)  Pinto/McWilliams/Kulczyk/Girt  Impressed Current System<br>Hands-On Workshop<br>(Outdoor @ AS Annex)  | Practical Application on                                      |
|                | Period 3                   | 1:30 pm-2:30 pm  Monitor Instructor 2:45 pm-3:45 pm  Monitor Instructor 4:00 pm-5:00 pm            | Class runs to 3:10  J. Williams  J. Otto  (15 minute break) Introduction to Cathodic Protection (Class starts at 3:2299)  T. Williams  Introduction to Cathodic                                  | S. Quackenbush D. Krause  Corrosion Fundamentals (cont'd)  B. Marshall                                     | J. Empric J. Fitzgerald Corrosion Fundamentals (confd) J. Fitzgerald                              | Current Cathodic Protection Systems D. Cutlip J. Burns  Criteria For Cathodic Protection L. Byrge T. Jenkins  Criteria for Cathodic Protection (cont'd)                     | Current Cathodic Protection Systems M. Choi J. Sapp  Criteria For Cathodic Protection T. Conner R. Fultineer  Criteria for Cathodic Protection (cont'd)             | Surveys and Analysis (cont's)  K. Garrity  Materials For Cathodic Protection  G. Walker  G. Krewson  Materials For Cathodic Protection (cont'd)   | Field Coatings with<br>Shrinkable Sleeves  E. Bonner  J. Wink  Field Applied Coatings<br>Outdoor Clinic<br>(Amphitheater)   | ECDA Indirect Inspection Tools - CIS  B. Benson T. Jenkins  ECDA Indirect Inspection Tools - DCVG/ACVG Current Attenuation J. Walton  ECDA Indirect Inspection Tools DCVG-ACVG Current Attenuation (cont'd)                       | Fault Surveys  M. Byerley  M. Byerley  Planning and Executing a Pipeline Rehabilitation  T. Shamblin  B. Deaton  Today's ILI  | B. Deaton S. Lébsack Field Sampling and Testing  | Life in Metallic Transmission Pipelines  R. Brown  Economics of Cathodic Protection  K. Ray  | Analysis Electric Tower and Grids  Dr. Zamanzadeh  Understanding the Reference Cell   | Hands-On Work Shop<br>(Outdoor @ AS Annex)  PintofMcWilliams/Kulczyk/Girt  Impressed Current System Hands-On Workshop (Outdoor @ AS Annex) (con'd)  | Practical Application on                                      |
|                | Period 3                   | 1:30 pm-2:30 pm  Monitor Instructor  2:45 pm-3:45 pm  Monitor Instructor  4:00 pm-5:00 pm  Monitor | Class runs to 3:10 J. Williams J. Ortio (15 minute break) Introduction to Cathodic Protection (class starts at 3:25PM)  T. Williams Introduction to Cathodic Protection (class starts at 3:25PM) | S. Quackenbush D. Krause  Corrosion Fundamentals (cont'd) B. Marshall D. Krause  Corrosion Control Methods | J. Empric J. Fitzgerald  Corrosion Fundamentals (contd)  J. Fitzgerald  Corrosion Control Methods | Current Cathodic Protection Systems  D. Cutlip J. Burns  Criteria For Cathodic Protection L. Byrge T. Jenkins  Criteria for Cathodic Protection (cont'd)  L. Byrge L. Byrge | Current Cathodic Protection Systems  M. Choi J. Sapp  Criteria For Cathodic Protection T. Conner R. Fultineer  Criteria for Cathodic Protection (cont'd)  T. Conner | Surveys and Analysis (contrd)  K. Garrity  Materials For Cathodic Protection  G. Walker  G. Krewson  Materials For Cathodic Protection (contrd)  Materials For Cathodic Protection (contrd) | Field Coatings with Shrinkable Sleeves  E. Bonner J. Wink  Field Applied Coatings Outdoor Clinic (Amphitheater)  J. Williams/D. Reeves  Field Applied Coatings Outdoor Clinic (Amphitheater)          | ECDA Indirect Inspection Tools - CIS  B. Benson T. Jenkins  ECDA Indirect Inspection Tools - DCVG/ACVG Gurrent Attenuation J. Walton  ECDA Indirect Inspection Tools DCVG-ACVG Current Attenuation (cont'd)  B. Benson            | Fault Surveys  M. Byerley  Planning and Executing a Pipeline Rehabilitation  T. Shamblin  B. Deaton  Today's ILI  M. Linville | B. Deaton S. L&bsack  Field Sampling and Testing J.*Rine  Laboratory Testing (Water/Gas Samples) | Life in Metallic Transmission Pipelines  R. Brown  R. Brown  Economics of Cathodic Protection  K. Ray  J. Bushman  Electric Rail Corrosion and Corrosion Control | Analysis Electric Tower and Grids  Dr. Zamanzadeh  Understanding the Reference Cell  J.Dimond  CP Test Stations – The Good, The Bad, The Ugly | Hands-On Work Shop (Outdoor @ AS Annex)  PintoMcWilliamsKulczyMcInt  Impressed Current System Hands-On Workshop (Outdoor @ AS Annex) (cont'd)  Impressed Current System Hands-On Workshop (Outdoor @ AS Annex) (cont'd)   | Practical Application on                                      |
|                | Period 3                   | 1:30 pm-2:30 pm  Monitor Instructor 2:45 pm-3:45 pm  Monitor Instructor 4:00 pm-5:00 pm            | Class runs to 3:10 J. Williams J. Ortio (15 minute break) Introduction to Cathodic Protection (Class starts at 3:25PM) T. Williams   | S. Quackenbush D. Krause  Corrosion Fundamentals (contd) B. Marshall D. Krause                             | J. Empric J. Fitzgerald Corrosion Fundamentals (confd) J. Fitzgerald                              | Current Cathodic Protection Systems D. Cutlip J. Burns  Criteria For Cathodic Protection L. Byrge T. Jenkins  Criteria for Cathodic Protection (cont'd)                     | Current Cathodic Protection Systems M. Choi J. Sapp  Criteria For Cathodic Protection T. Conner R. Fultineer  Criteria for Cathodic Protection (cont'd)             | Surveys and Analysis (contrd)  K. Garrity  Materials For Cathodic Protection  G. Walker  G. Krewson  G. Walker  G. Krewson  | Field Coatings with Shrinkable Sleeves  E. Bonner J. Wink  Field Applied Coatings Outdoor Clinic (Amphitheater)  J. Williams/D. Reeves  Field Applied Coatings Outdoor Clinic                         | ECDA Indirect Inspection Tools - CIS  B. Benson T. Jenkins  ECDA Indirect Inspection Tools - DCVG/ACVG Current Attenuation J. Walton  ECDA Indirect Inspection J. Walton  ECDA Indirect Inspection J. Walton  J. Walton J. Walton | Fault Surveys  M. Byerley  M. Byerley  Planning and Executing a Pipeline Rehabilitation  T. Shamblin  B. Deaton  Today's ILI  | B. Deaton S. L&basck  Field Sampling and Testing  J-Rine   | Life in Metallic Transmission Pipelines  R. Brown  Economics of Cathodic Protection  K. Ray J. Bushman   | Analysis Electric Tower and Grids  Dr. Zamanzadeh  Understanding the Reference Cell  J.Dimond   | Hands-On Work Shop (Outdoor @ AS Annex)  PintoMcWilliams/kulczyWOirt  Impressed Current System Hands-On Workshop (Outdoor @ AS Annex)  PintoMcWilliams/kulczyWOirt  Impressed Current System Hands-On Workshop (Confd)  Impressed Current System (Foldoor @ AS Annex)  (Outdoor @ AS Annex) | Practical Application on                                      |
|                | Period 3 Period 4 Period 5 | 1:30 pm-2:30 pm  Monitor Instructor  2:45 pm-3:45 pm  Monitor Instructor  4:00 pm-5:00 pm          | Class runs to 3:10 J. Williams J. Ortio (15 minute break) Introduction to Cathodic Protection (class starts at 3:25PM)  T. Williams Introduction to Cathodic Protection (class starts at 3:25PM) | S. Quackenbush D. Krause  Corrosion Fundamentals (cont'd) B. Marshall D. Krause  Corrosion Control Methods | J. Empric J. Fitzgerald  Corrosion Fundamentals (contd)  J. Fitzgerald  Corrosion Control Methods | Current Cathodic Protection Systems  D. Cutlip J. Burns  Criteria For Cathodic Protection L. Byrge T. Jenkins  Criteria for Cathodic Protection (cont'd)  L. Byrge L. Byrge | Current Cathodic Protection Systems  M. Choi J. Sapp  Criteria For Cathodic Protection T. Conner R. Fultineer  Criteria for Cathodic Protection (cont'd)  T. Conner | Surveys and Analysis (contrd)  K. Garrity  Materials For Cathodic Protection  G. Walker  G. Krewson  Materials For Cathodic Protection (contrd)  G. Walker  G. Krewson  EXHI                | Field Coatings with Shrinkable Sleeves  E. Bonner J. Wink  Field Applied Coatings Outdoor Clinic (Amphitheater)  J. Williams/D. Reeves  Field Applied Coatings Outdoor Clinic (Amphitheater) (Cont'd) | ECDA Indirect Inspection Tools - CIS  B. Benson T. Jenkins  ECDA Indirect Inspection Tools - DCVG/ACVG Current Attenuation J. Walton  ECDA Indirect Inspection Tools DCVG-ACVG Current Attenuation (cont'd) B. Benson J. Walton   | Fault Surveys  M. Byerley  Planning and Executing a Pipeline Rehabilitation  T. Shamblin  B. Deaton  Today's ILI  M. Linville | B. Deaton S. L&bsack  Field Sampling and Testing J.*Rine  Laboratory Testing (Water/Gas Samples) | Life in Metallic Transmission Pipelines  R. Brown  R. Brown  Economics of Cathodic Protection  K. Ray  J. Bushman  Electric Rail Corrosion and Corrosion Control | Analysis Electric Tower and Grids  Dr. Zamanzadeh  Understanding the Reference Cell  J.Dimond  CP Test Stations – The Good, The Bad, The Ugly | Hands-On Work Shop (Outdoor @ AS Annex)  PintoMcWilliams/KulczyWGirt  Impressed Current System Hands-On Workshop (Outdoor @ AS Annex) (cont'd)  PintoMcWilliams/KulczyWGirt  Impressed Current System Hands-On Workshop (Outdoor @ AS Annex) (cont'd)  PintoMcWilliams/KulczyWGirt          | Practical Application on                                      |

MRB: Mineral Resources Bldg.
ESB: Engineering Sciences Bldg.
AS Annex: Agricultural Sciences Annex
AGS: Agricultural Sciences Bldg
SAS: South Agricultural Sciences Bldg

Thursday, May 15

Wednesday, May 14

ocation Abbreviations

Mineral Resources Bldg.

Jineering Sciences Bldg.

AS Annex: Agricultural Sciences Annex AGS: Agricultural Sciences Bldg SAS: South Agricultural Sciences Bldg