NACE International and Mechanical Assoc. Railcar Technical Services

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History

- Established in 1943
- Non-Profit Organization
- Volunteer/Member Driven
NACE International, the Corrosion Society

- 30,000+ members
- 20,000 coating inspectors worldwide
- 3,000 NACE members writing standards
  - Broad participation by owners and other industries
  - ANSI-accredited consensus procedures
  - Transparency and ease of participation
- Training—many courses leading to certification
- Sometimes we develop training based on standards!
Education
Coating Inspection

– The world’s most recognized coating inspector program
– In 2012, going on 30 years of excellence
– 20,188+ NACE CIP card holders
  – CIP L1 – 10,178
  – CIP L2 - 5647
  – CIP L3 Peer – 4363
– Worldwide Inspectors (105 countries)
– 2012: training in 24 countries
– Translations in 9 languages

Leaders in Corrosion Control Technology
The First World-Class Training Center for Corrosion

Leaders in Corrosion Control Technology
Education Building

Coatings Lab
- Project completed in April 09
NACE Works with Government

- Look to NACE as YOUR RESOURCE
- Regulators participate on standards committees
- Government employees take NACE training
- NACE leads with experts from many different areas
- NACE supports government owners of assets
- NACE provides targeted programs to train your employees in necessary tasks
- NACE Accredited by IACET
NACE Leads the Way

- Regarding railways, NACE has standing committees that are focused on standards and technical guidance for corrosion control of railway tank cars, surface preparations and coating applications, non-skid coatings, measurements and data collections,

- NACE No. 13/SSPC-ACS-1, Industrial Coating and Lining Application specialist Qualification and Certification
  - Requirements for qualification and certification of an industrial coating and lining application specialist
  - Covers surface preparation and coating application for steel and concrete surface of complex industrial structures
The Cost of Corrosion

- 2002 study, *Corrosion Costs and Preventive Strategies in the United States*, shows $276 billion in direct costs (3.1% GDP)
  - 2012 - $4.65 Billion in direct costs due to corrosion
- Utilities—largest industrial corrosion costs—$47.9 billion
  - 75% ($36 billion) from drinking water and sewer systems
  - replacing aging infrastructure
  - lost water from unaccounted-for leaks
  - corrosion inhibitors
  - internal mortar linings
  - external coatings
  - cathodic protection
Costs of Corrosion

- Operation, Maintenance, Finance, Capital
  - Railroad cars $0.5 billion
  - Drinking Water Systems $19.25 billion
  - Sewer Systems $13.75 billion
  - Cost of Lost Water $3.0 billion

TOTAL $36.0 billion

More than 90% of lost-water cost is corrosion-related, because of leaking systems
What’s New in Politics?

- Congress acted on Corrosion legislation
  - Senate version included corrosion mitigation … but,
  - removed from final bill.
And for more information. . .

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