

NACE International and Mechanical Assoc. Railcar Technical Services

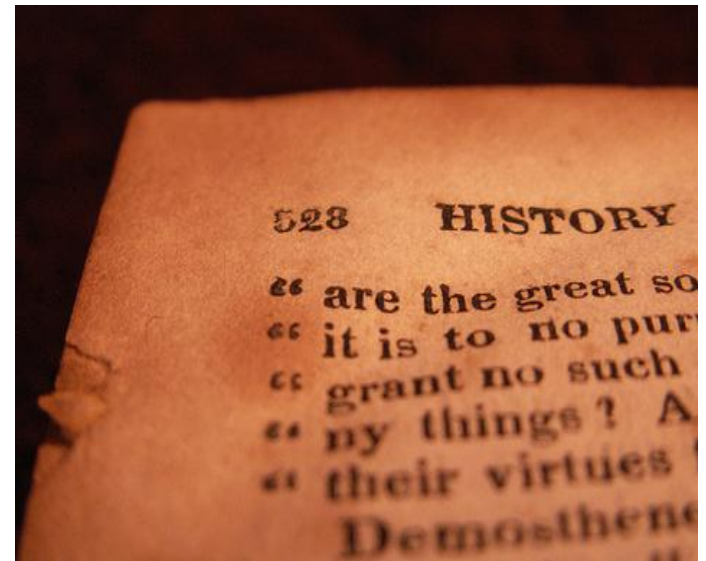
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History

- Established in 1943
- Non-Profit Organization
- Volunteer/Member Driven



Leaders in Corrosion Control
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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

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The First World-Class Training Center for Corrosion



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Education Building



Coatings Lab
- Project completed in April 09



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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 \$.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
- *MAP-21- Moving Ahead for Progress in the 21st Century.*
 - Senate version included corrosion mitigation ... but,
 - removed from final bill.



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And for more information. . .

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