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## State of the NACE Web Site

**A**s NACE International celebrates the second anniversary of the launch of the online NACE Store, it seems appropriate to make a "State of the Web" address.

A lot has happened to the NACE Web site this year. The total number of products available for sale in the online store has grown to more than 4,400 with the addition of more than 3,500 individual conference papers from CORROSION/1996 through CORROSION/2003. The conference papers are available for immediate access in a PDF format for as little as \$10 each. The online NACE Store also has been updated to offer NACE branded items such as shirts, hats, mugs, and much more. As a special incentive for July, all online orders totaling \$125 or more qualify for free shipping.

Another major change has been the replacement of the NACE Knowledgebase with NACE Publications Online. The new NACE Publications Online portion of the Web site is home to *CORROSION Online*, a repository of more than 1,000 articles previously published in *CORROSION*. With the recent addition of all articles published in 1992, *CORROSION Online* offers subscribers access to more than 11 years of information. The number of articles available continues to grow as current articles are added monthly. NACE is happy to announce that NACE Publications Online will also be home to *Materials Performance Online* in the coming months. *MP Online* will be available to all NACE members.

NACE is very pleased that 15 sections have opted to use the Web tools provided by NACE Headquarters to maintain their own "Calendar of Events" and "News and Activities" pages on the NACE Web site. This is a great way for sections to easily and effectively communicate with their memberships.

The NACE Web site is continually updated to have the latest information concerning topical seminars and conferences such as Pipeline Integrity Management seminars and the Pipeline Coatings and Rehabilitation conferences. Registration, meeting, and hotel information for

Corrosion Technology Week/2003 was posted in June.

The Web group at NACE is looking forward to the coming year and the opportunities to add more content and functionality to the NACE Web site. We are challenged to improve the NACE Web site while keeping pace with the constantly evolving technology of the Internet world.

The NACE Web site is available as a service to the society's members, and we would like to hear from you. Please contact us with your concerns, questions, and/or suggestions. You may contact me at sarah.coffman@mail.nace.org.

I look forward to hearing from you.

Sarah Coffman  
NACE Webmaster



## NACE Area & Section News



Terry May (center) and Ron Fields, on behalf of Terence Wilkens, are shown presenting their donations to Tim Monkres, Chairman of the Tulsa Section.

**Central Area**  
**T**wo donations were presented at the April 2003 meeting of NACE International's **Tulsa Section** that will be used for the section scholarship program. Terry May, President of Mesa Products, donated the NACE instructor fees he received for teaching two Cathodic Protection (CP) I classes and Terence Wilkens (Schmoltdt Engineering) donated the fee he

received as an apprentice instructor for a CP I class. (*—E. Bowman*)

### Western Area

The **Western Area** rounded out 2002 by presenting its annual Achievement Awards at an evening poolside barbecue held November 5 at the Riviera Resort Hotel and Racquet Club in Palm Springs, California, during the Western Area Conference. All of this year's award

recipients are members of the **Los Angeles Section**.

Jack McCaffery received the Richard F. Stratfull Service Award in honor of his contributions to the NACE Western Area. Gordon Rankin accepted the Outstanding Company Award presented to Corrosion Control Products Co. for its distinguished support and many contributions to the Western Area.

Graham Bell was awarded Engineer of the Year for his outstanding contributions to the field of corrosion. Bell, President of MJ Schiff and Associates, has more than 15 years of experience designing and testing corrosion control facilities and performing forensic evaluation of corrosion damage on buried and submerged structures.

Additionally, he has 48 publications to his credit, has held every office in the Los Angeles Section, served as Chairman for numerous NACE committees and task groups, and has presented at many NACE and American Water Works Association functions. His family was on hand to help celebrate as Graham accepted this prestigious award.

The Western Area also bestowed a special Lifetime Achievement Award to Bill Stead for his many contributions and outstanding service to the Western Area. A recipient of the 1990 Stratfull Award and the 1976 Engineer of the Year Award, Stead received the additional recognition by the board for his continued support of Western Area activities. (*—S. Peterson*)

### Northern Area

The **Canadian National Section** is hosting the Northern Area Eastern Conference in Ottawa, Ontario, on September 15 to 17, 2003, with the theme, "Corrosion Control for Enhanced Reliability and Safety." Attendees will hear about the latest corrosion research in automobiles, biomaterials, infrastructure, water systems, oil and gas production, and transport components. In addition, there will be sessions



Bill Stead presents Graham Bell with the Engineer of the Year Award.



Graham Bell with sons Graham and Sam and wife Julie.



Jim Jenkins presents Jack McCaffery with the Stratfull Award.



Gordon Rankin accepts the Outstanding Company Award for Corrosion Control Products Co.



Bill Stead accepts a special Lifetime Achievement Award from Jack McCaffery.

on inhibitors, sensors and monitoring, lifetime prediction, nuclear waste management, and preservation of heritage artifacts such as ancient bronzes and Civil War submarines. The conference also will include an Educator's Forum, at which the NACE Foundation will be discussed, and a trade show featuring current technologies available for corrosion control. The Northern Area Board meeting convenes at 8 a.m. on September 14. Bruce Baldock has details at phone: 613/998-4396 or e-mail: bruce.baldock@nrc.ca.

The **British Columbia Section** extends its invitation to attend the Northern Area Western Conference February 16 to 19, 2004, in Victoria, British Columbia. The program will include 40 technical papers, an exhibit area, a variety of social events, and a spousal program. A reception dinner buffet will occur Monday at the beautiful Royal British Columbia Museum. NACE President Pierre Crevolin will open the conference on Tuesday for technical programs in five areas—Municipal Infrastructures, Oil and Gas, Power Generation, Transportation, and Marine. Papers in all these areas are invited for consideration, particularly those on new technology, improved practices, and significant developments. The deadline for abstracts is September 30, 2003, and completed papers are due on December 1, 2003. Those interested

should provide the title, names of authors, and a short abstract in Word format. For more information about paper submittal, contact Program Chairman Bob Charlton, Levelton Engineering, phone: 604/207-5112, fax: 604/278-1042, or e-mail: rsc@levelton.com.

The \$350 registration fee includes a sit-down luncheon, a reception in the exhibition area, and an evening bus trip to Sooke, where attendees will have the opportunity to enjoy the district's famous barbecued salmon dinner and entertainment. Golfers are invited to join a tournament on February 16. The Northern Area Board meeting will be February 15. Conference Chairman Greg deCaux can be contacted by phone: 250/729-9546 or e-mail: gdecaux@telus.net.

In February, the **Atlantic Canada Section** hosted the NACE Basic Corrosion Course at the Lord Nelson Hotel in Halifax, Nova Scotia. The course, attended by 15 people and presented by Richard Norsworthy, received excellent reviews. Tentative plans are in place for the section to sponsor a cathodic protection course in New Brunswick. The section's annual meeting, in addition to family activities and golf, was held on June 28 at the Dundee Resort on Cape Breton Island. Wayne MacAskill has details at e-mail: macaska@gov.ns.ca. (*—D.T. Perrigo*) **MP**

## Book Contribution Honors NACE Past President Burton

In 1999, the family of NACE International Past President Walter H. Burton donated \$1,000 from the Grace G. Burton endowment to provide NACE books to the S.C. Williams Library at the Stevens Institute of Technology (Hoboken, New Jersey). NACE supplemented the purchased books with several other books and complimentary subscriptions to *MP* and *CORROSION*. The endowment and NACE have continued to donate books on corrosion prevention and control to the library in subsequent years.

This year NACE donated nine more books, including the recently released *Fusion Bonded*

*Epoxy (FBE): A Foundation for Pipeline Corrosion Protection*, and *Guide to the Use of Materials in Waters*.

The donations honor Burton for his many contributions to the corrosion control community. He served on the NACE Board of Directors, the Membership Committee, and the Technical Activities Committee (now the Technical Coordination Committee), and was President in 1966/1967. He was a chemical engineer at Allied Signal in Morris Township, New Jersey, for 40 years before retiring in 1973. Burton passed away on February 28, 1997. **MP**

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R.J. Coe/2003-2006  
Pipeline Strategies & Integrity,  
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C.M. Fowler/2003-2006  
Bodycote International Testing,  
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# Task Group Revising Criteria Section of RP0169



**N**ACE International Task Group (TG) 285 was formed last year to revise Section 6 of NACE Standard RP0169, "Control of External Corrosion on Underground or Submerged Metallic Piping Systems."

This NACE standard is used extensively for mitigation of corrosion on pipelines and is cited in government regulations. The criteria in Section 6 are used in many other standards published in recent years. Following publication in 1969, RP0169 was revised in 1972, 1976, 1983, and 1992, and was reaffirmed in 1996 and 2002. NACE Specific Technology Group (STG) 35 on Pipelines, Tanks, and Well Casings, which reaffirmed the standard in 2002, asked STG 05 on Cathodic/Anodic Protection to review the criteria section and recommend reaffirmation or revision. An ad hoc committee appointed by STG 05 presented a report of its findings at CORROSION/2002:

- Section 6 could not be reaffirmed as it exists.
- Ambiguity exists between the  $-0.850$  vs copper/copper sulfate ( $\text{Cu}/\text{CuSO}_4$ ) electrode (CSE) current applied criterion and  $-0.850$  vs CSE polarized criterion.
- There are other international criteria that should be considered.
- There is confusion regarding 100-mV formation and decay.
- More guidance is needed on cathodic protection (CP) criteria for controlling micro-biologically influenced corrosion and corrosion at elevated temperature.
- Upper limits on CP criteria for coating damage and/or high-strength steels are needed.

TG 285 is composed of eight operators, one vendor, one government regulator, and two consultants. The group has held numerous weekly teleconferences to discuss revisions and is working online using an ASTM International

Forum Online Document Development System to facilitate revisions to the draft and discussion of research.

The TG has followed three parallel paths:

- Compiled and reviewed all significant research on CP criteria published since 1992
- Compiled and reviewed other industry standards, including the International Organization for Standardization (ISO) and those from Australia and Japan
- Reviewed the existing Section 6 of RP0169.

The TG also:

- Considered the impact of a revision to regulated transmission piping, regulated distribution piping, and municipal piping systems
- Determined a need to be more specific in the guidelines on criteria applications in RP0169
- Determined a need to provide more guidance on measurement techniques related to criteria
- Determined a need to incorporate discussion on alternating current corrosion
- Determined a need to provide guidance on upper limits for CP criteria

The TG reviewed a draft at its meeting at CORROSION/2003. When TG consensus is reached, a draft will be distributed for ballot. The TG will meet from 4 to 6 p.m. Tuesday, September 9, at Corrosion Technology Week. Members of sponsoring STGs 05 and 35 will be sent a canvass asking whether they wish to vote on the ballot. NACE members who wish to join either of these STGs may contact the NACE Technical Activities Division at e-mail: [tcc@mail.nace.org](mailto:tcc@mail.nace.org). Other interested persons may also contact the Technical Activities Division to request a copy of the ballot.

(—L. Goldberg) MP

## Notice of Standard Withdrawal

**I**n accordance with procedures in the *Technical Committee Publications Manual*, NACE International technical committees have recommended the withdrawal of the following standard, subject to ratification by the NACE

Board of Directors: TM0196-96, "Chemical Resistance of Polymeric Materials by Periodic Evaluation." NACE standards are reviewed and revised, reaffirmed, or withdrawn every 5 years.

(—L. Goldberg) MP

# Ballots From Technical Committees

**T**ask Group (TG) 038's proposed NACE International Standard Recommended Practice (RP), "Control of Internal Corrosion in Steel Pipelines and Piping Systems," is now being distributed for letter rebalot. The purpose of this standard is to describe procedures and practices for achieving effective control of internal corrosion in steel pipe and piping systems in crude oil, refined products, and gas service. It is intended for use by pipeline operators, pipeline service providers, government agencies, and any other persons or companies involved in planning, designing, or managing pipeline integrity.

TG 133's proposed revision of NACE Standard TM0198-98, "Slow Strain Rate Test [SSRT] Method for Screening Corrosion-Resistant Alloys [CRAs] for Stress Corrosion Cracking [SCC] in Sour Oilfield Service," is currently being distributed for letter rebalot. The purpose of this standard is to establish an SSRT method for screening CRA materials (i.e., stainless steels and nickel-based alloys) for resistance to SCC at elevated temperatures in sour oilfield production environments. This standard specifies reagents, test specimens, test equipment, how to determine baseline material properties, environmental and mechanical test conditions, test procedure, and analysis and reporting of test results.

TG 137's proposed revision to NACE Technical Committee Report 1C184, "Hydrogen Permeation Measurement and Monitoring Technology," is being distributed for letter ballot. This report was prepared to provide basic information on hydrogen permeation measurement and monitoring technology. It describes the background of this technology, types of hydrogen monitors available, applications, data analysis and interpretation, problems commonly encountered when using probes, and performance data.

TG 151's proposed NACE technical committee report, "Biocide Monitoring and Control in Cooling Towers," is being distributed for letter ballot. Bacteria, fungi, algae, and protozoa are the microorganism classes of concern in cooling water systems. To control the growth of these organisms, programs employing oxidizing microbiocides, nonoxidizing microbiocides, and biodispersants are used.

This proposed report discusses specific technologies used to control these classes of microorganisms. It is not a guide to setting up a microbiological control program; rather, it is meant to help users understand the components of in-place programs and discuss the treatment program to avoid misapplication.

TG 260's proposed NACE standard test method, "Offshore Platform Atmospheric and Splash Zone Maintenance Coatings," is being distributed for letter ballot. The purpose of this method is to present effective and economical lab test procedures to evaluate performance of offshore atmospheric and splash zone maintenance coating. It is written for facility owners wishing to extend service life and reduce life-cycle costs. It also can be used by coating suppliers to develop long-life coating systems for the offshore market. The test method covers both offshore atmospheric and splash zone coatings. It evaluates seven coating properties—rust creepage, residual salt resistance, edge retention, thermal cycling resistance, flexibility, impact strength, and abrasion resistance—for atmospheric coatings. In addition to these seven properties, it examines water immersion resistance for splash zone coatings.

TG 284's proposed revision of NACE Standard RP0196-96, "Galvanic Anode Cathodic Protection of Internal Submerged Surfaces of Steel Water Storage Tanks," is being distributed for letter rebalot. This standard RP presents the procedures and practices used in providing galvanic anode cathodic protection (CP) to the normally submerged steel surfaces inside water storage tanks. The standard provides owners, engineers, and contractors with specific guidelines for the design and installation of these CP systems; outlines methods for determining their effectiveness; and gives recommendations for their operation and maintenance. It applies to water storage tanks of various sizes used in municipal water supply and fire protection, including elevated tanks as well as flat-bottom tanks at ground level.

Interested persons may contact NACE Headquarters to receive a copy of any of these ballots or reballots. (*—L. Blundell and S. Strawbridge*) **MP**

# The Certified Answer

What study materials are available when preparing to sit for a certification exam?

As a follow-up to last month's column, which featured a listing of recommended reference books for Corrosion Technician, Corrosion Technologist, and Senior Corrosion Technologist exams, this article lists materials appropriate for open-book exams in the various Specialist categories.

Books with item numbers listed are available from NACE International. The list is not intended to be all-inclusive—nor is it meant to exclude other similar texts—but is designed to build upon each examination category. This is neither an offer to sell nor a recommendation to purchase.

## CHEMICAL TREATMENT SPECIALIST

- Hausler, R.H., ed., *Corrosion Inhibition—Theory and Practice*, NACE-7, NACE, 1988 (Item #37339)
- Herro, H.M. and Port, R.D., *The Nalco Guide to Cooling Water System Failure Analysis*, McGraw-Hill, 1993
- NACE TPC Publication No. 6, *Bibliography on Chemical Cleaning of Metals*, Vols. I and II, NACE, 1987 (Item #25006)
- Port, R.D. and Herro, H.M., *The Nalco Guide to Boiler Failure Analysis*, McGraw-Hill, 1991
- Raman, A. and Labine, P., eds., *Reviews on Corrosion Inhibitor Science and Technology*, NACE, 1993 (Item #37361)

## MATERIALS SELECTION/DESIGN SPECIALIST

- Boyer, H.E. and Gall, T.L., eds., *ASM Handbook: Vol. 13, Corrosion*, ASM International, 1987 (Item #37714)
- *Compass Corrosion Guide*, 2nd ed., Compass Publications, 1983
- Gibala, R. and Hehemann, R.F., *Hydrogen Embrittlement and Stress Corrosion Cracking*, ASM International, 1984
- Davis, J.R., ed., *Metals Handbook: Desk Edition*, 2nd ed., ASM International, 1998 (Item #38312)
- Parkins, R.N., *Corrosion Prevention in the Process Industries*, NACE, 1990 (Item #37344)
- Staehle, R.W., Brown, B.F., Kruger, J., and Agrawal, A., eds., *Localized Corrosion*, NACE-3, NACE, 1974 (Item #37303)
- Uhlig, H.H., *Corrosion Handbook*, John Wiley & Sons, 1948
- Wyatt, L.M., Bagley, D.S., Baxter, D.C., and

Moore, M.A., *An Atlas of Corrosion and Related Failures*, Materials Technology Institute, 1987

## PROTECTIVE COATINGS SPECIALIST

- Leidheiser, Jr., H., *Corrosion Control by Organic Coatings*, NACE, 1981 (Item #37313)
- *NACE TPC Publication No. 2, Coatings and Linings for Immersion Service*, 2nd ed., NACE, 1999 (Item #25022)
- Keane, J.D., ed., *Steel Structures Painting Manual*, Vols. I and II, 3rd ed., SSPC, 1995 (Item #37722)
- *12th International Corrosion Congress Proceedings, Vol. I—Coatings*, NACE, 1993 (Item #37374)
- Weaver, P.E., *Industrial Maintenance Painting*, 1981

The following publications are from the Federation Series on Coatings Technology published by the Federation of Societies for Coatings Technology:

- Brandau, A., *Introduction to Coatings Technology*, October 1990
- Braun, J.H., *Introduction to Pigments*, January 1993
- Ellis, W.H., *Solvents*, October 1986
- Hill, L.W., *Mechanical Properties of Coatings*, April 1987
- Pierce, P.E. and Schoff, C.K., *Coating Film Defects*, January 1988
- Prane, J.A., *Introduction to Polymers and Resins*, July 1986
- Schoff, C.K., *Rheology*, September 1991
- Smith, A., *Inorganic Primer Pigments*, November 1988
- Wicks, Z.W., *Film Formation*, June 1986

## CORROSION SPECIALIST

(Includes reference material listed above)

- Alberty, R.A., *Physical Chemistry*, John Wiley & Sons, 1983
  - Dieter, G.E., *Mechanical Metallurgy*, McGraw-Hill, 1976
  - LaQue, F.L., *Marine Corrosion: Causes and Prevention*, John Wiley & Sons, 1975
  - Piron, D.L., *The Electrochemistry of Corrosion*, NACE, 1991 (Item #37513)
  - Schweitzer, P.A., *Corrosion and Corrosion Protection Handbook*, 2nd ed., Marcel Dekker, Inc., 1989 (Item #37754)
  - Szklarska-Smialowska, Z., *Pitting Corrosion of Metals*, NACE, 1986 (Item #37508)
- (—P. McCordic) MP



# White Papers Increase Corrosion Awareness

Throughout the past few years, the NACE International Public Affairs Administrative Committee has prepared and maintained position papers—commonly referred to as “white papers”—about different types and occurrences of corrosion and how they can be controlled. These papers originally were prepared with the participation of relevant technical committee members through the process of Technology Resource Teams. They are made available to government decisionmakers and the general public to increase awareness of the importance of corrosion control.

The following paper is sixth in a series being published each month in *MP*. The papers also are available from the Public Affairs section of the NACE Web site: [www.nace.org](http://www.nace.org).

## Bridge Corrosion

The U.S. Federal Highway Administration (FHWA) has rated nearly 200,000 bridges, or one of every three bridges in the U.S., as structurally deficient or functionally obsolete. Furthermore, more than one-fourth of all bridges are more than 50 years old—the average design life of a bridge.

The Strategic Highway Research Program (SHRP) of the U.S. National Research Council recently estimated that the cost of damage to America's bridges currently stands at approximately \$20 billion and is increasing at a rate of \$500 million per year. SHRP concluded that the structural deterioration found in these bridges is primarily the result of corrosion.

### WHAT IS CORROSION AND HOW DO WE CONTROL IT?

Corrosion is the deterioration of a material, usually a metal, that results from a reaction with its environment. Over a period of time the components of a bridge may deteriorate to the extent that the bridge is no longer safe. However, using current corrosion control technology in conjunction with maintenance and monitoring guidelines, we are preventing their decay and extending the life span of bridges to a certain extent. With multiple corrosion protection system strategies the life span can be extended by decades.

Common strategies for corrosion control include 1) designing the structures with corrosion prevention in mind and selecting corrosion-resistant materials when constructing and refurbishing bridges; 2) applying protective coatings, membranes, and protective sealers to the bridge, which can serve as a barrier to corrosive environments; 3) using direct electrical current and sacrificial materials to mitigate corrosion on rein-

forced concrete and bridge decks—a process known as “cathodic protection;” and 4) electrochemical chloride extraction.

### WHY ARE BRIDGES DETERIORATING?

A number of factors contribute to bridge corrosion. One of the most common is the use of deicing salts on roads and bridges—a practice that has contributed significantly to the deterioration of such structures. The salts cause corrosion of the steel reinforcing bars and other steel components supporting the bridge. This form of corrosion is the main cause of concrete bridge deterioration. Other problems that lead to corrosion include bridge designs that do not adequately consider drainage requirements, stresses, shrinkage, or expansion, and environmental factors such as frequent freezing and thawing cycles.

Compounding the effects of a corrosive environment is the lack of proper monitoring and maintenance of bridges. Technology exists that can keep bridges free from the harmful effects of corrosion, but it is only effective if it is used properly and regularly monitored.

### WHAT CAN WE DO?

First, persons responsible for design, maintenance, and rehabilitation of bridges must be made aware of existing corrosion control technology and related benefits. These individuals should be given the opportunity to receive specialized training or provided the necessary support to obtain input from qualified professionals. Second, the public and private sectors should encourage and promote the inclusion of life-cycle costs for new bridge construction, including maintenance and rehabilitation, for any new bridge construction project. Repair and maintenance of these structures using corrosion control technologies can extend their useful life and be much less costly than replacement. Finally, an increased commitment to fundamental and applied research on corrosion control for structures such as bridges is necessary—instead of the costly replacement option.

### CONCLUSION

Controlling corrosion on bridge structures can prevent premature failure and lengthen their useful service life—both of which save money and natural resources and promote public safety. The U.S. depends upon its bridges to move into the future. Paying proper attention to maintenance of these structures will help guarantee the safety of people throughout the country. *MP*

## In Memoriam

Longtime NACE International staff member **Laugustine "Gus" Gabino** passed away on April 18, 2003, after a short illness. He was 60 years old.

When Gabino joined NACE in 1968, NACE operated a print shop at Headquarters with several presses, a dark room, and other equipment needed to print the society's journals, books, conference papers, and other projects.

Throughout his nearly 32 years at NACE, Gabino worked in various capacities in the print shop, including Production Manager and Staff Director. When NACE eventually outsourced its printing to other vendors, Gabino became Manager of Support Services, overseeing customer fulfillment, product assembly and storage, mailing, and numerous other functions of the department. Many NACE members had the opportunity to know and work with Gabino throughout the years both at

Headquarters and from his presence at Annual Conference.

Gabino is survived by his wife of 37 years, Beatrice; sons Stephen Michael, Jerry Mark and wife Stephanie, and Jaime Alfred and wife Kristin; and grandchildren Madison Emily and Matthew Ryan. He is also survived by his father, Agustin Gabino; sisters Argentina and husband Daniel, Alma and husband Arthur, and Silvia and husband Andrew; and numerous nieces, nephews, and cousins. His funeral was held on April 21 at St. Bartholomew the Apostle Catholic Church in Katy, Texas. *MP*



NACE Past President **Roy O. Dean** passed away on April 30, 2003 at the age of 92.

Born in St. Francisville, Illinois, Dean studied electrical engineering at Tri-State University in Indiana. He was a top corrosion engineer for Pacific Gas & Electric Co. (San Francisco, California) for 35 years. After retiring in 1975, he continued to remain active in the corrosion community by lecturing about corrosion engineering in foreign countries.

Dean was very involved in civic activities and was a member of a committee that incorporated the city of Fremont, California, in 1956. He authored the book, *City of Fremont: The First 30 Years*.

Dean served as NACE President in 1968/1969 and was an active member of the San Francisco Section. He received a 60-year service award in March at CORROSION/2003 in San Diego, California.

Dean is preceded in death by his first wife, Opie Lee Gray. He is survived by wife Mary, son Michael, daughter Patricia, stepsons David Townsend and Thomas Lehman King, stepdaughters Candace King Sykes and Katherine King Torrence, sister Eliza Ross, and 11 grandchildren and six great-grandchildren. *MP*



## New Corporate Members

NACE International would like to thank the following companies for signing up as Corporate Members:

**Corrosion Control, Inc.,  
Rutledge, Georgia—Silver**

**R&L Industrial Supplies,  
Waukomis, Oklahoma—Bronze**

The total number of NACE members as of May 15, 2003, was **14,572**. For information about NACE membership categories and benefits, see the Membership section of the NACE Web site: [www.nace.org](http://www.nace.org). For a searchable directory of NACE-certified individuals, see the Education/Certification section of the Web site. *MP*

## Leader of the Pack

Melanie Chmiel, Graphics Specialist for *CORROSION*, recently completed the project of scanning and tagging all 1992 issues of the journal for inclusion in *CORROSION Online*. The searchable *CORROSION Online* now offers *CORROSION* articles for

the past 11 years. Melanie, who has been with NACE for more than 15 years, worked extra hours and weekends to complete the job, which involved careful proofing to ensure that all text and equations came through correctly. Her hard work and dedication exemplify a NACE Leader of the Pack. *MP*



# This Month at [www.nace.org](http://www.nace.org)

**The NACE Web site** is continually updated with news, events, special features, searchable databases, job opportunities, and more. Visit the Web site often to stay in touch with the latest information on corrosion prevention and control. Here are some of this month's Web site highlights:

## ***CORROSION Online: 1992 to 2003***

*CORROSION* subscribers now have access to 11 full years of searchable articles in the electronic version of the journal, which is available at the NACE Web site. Readers of *CORROSION*—the world's largest monthly permanent record of progress in corrosion control and prevention—can also choose to subscribe to the electronic journal only. Go to the Publications Online area of the Web site for more information about *CORROSION Online*.

## **NACE Education & Training Guide**

NACE members received copies of the *2003-2004 NACE Education & Training Guide* in their June 2003 issues of *MP*. The guide is now posted on the NACE Web site in PDF format. NACE courses range in length from weeklong intensive study courses to 3-day specialty courses on a variety of application-oriented and industry-specific subjects. See the new guide for complete information on NACE courses, schedules, and locations through June 2004.

## **Corrosion Technology Week/2003 Advance Program**

The Advance Program for NACE Corrosion Technology Week/2003, formerly named Fall Committee Week, begins on p. 69 of this issue. Those planning to attend the annual NACE technical and administrative committee workweek should continue to monitor the online version of the program at [www.nace.org/ctw](http://www.nace.org/ctw) for the most up-to-date information.

## **NACE Store: Free Shipping This Month**

The electronic NACE Store has proven highly useful to members all over the world. Corrosion professionals can order online at any hour from the world's largest collection of corrosion prevention and control-related books, technical standards and reports, conference papers, and software. NACE is offering free shipping through July 2003 for all NACE Store Web purchases of \$125 or more. Products can be searched by industry or product type, with special sections indicating sale items.

## **Career Center**

Available exclusively to NACE members, the NACE Online Career and Employment Center features a Resumé Bank and a Job Bank. Members can submit their resumé or search the Job Bank free of charge. Registered employers have free access to both banks.



## **Multiyear Event Calendar**

Updated regularly, the Event Calendar provides dates, locations, and contact information for corrosion-related conferences, symposia, and education courses around the world. The calendar is categorized by continent and lists events through 2006. *MP*

# CORROSION TECHNOLOGY WEEK

Five Days

Hundreds of  
Meetings

Bridging the  
Gaps in Today's  
Technologies

Coming Soon!



**Pittsburgh, PA  
September 7-11, 2003  
Westin Pittsburgh Hotel**

## ASSOCIATION NEWS



### Members' Directory to NACE Headquarters

To reach NACE staff in the following areas, dial 281/228-6200. After the first ring, enter the desired extension number if you have a touch-tone phone. Enter 0 to reach the receptionist during business hours (7:30 a.m. to 4:15 p.m. CST). If calling from a rotary phone, wait through the 15-second recording and the operator will direct your call. The fax number for staff members is 281/228-6300. The fax number for all general membership inquiries and orders is 281/228-6329.

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