ABOUT THE AUTHOR

Manual 20 Corrosion Tests and Standards: Application and Interpretation, Second Edition

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Robert Baboian is a corrosion consultant with RB Corrosion Service. He received his B.S. degree in chemistry fro Suffolk University in 1959 and his Ph.D. in physical chemistry from Rensselaer Polytechnic Institute in 1964. He did postdoctoral research at the University of Toronto in 1964 and subsequently received a faculty appointment to Senior Research Associate in 1965. He joined the Materials and Controls Group of Texas Instruments, Inc. in 1966, where he established the Electrochemical and Corrosion Laboratory. He retired from Texas Instruments in December 1996 as Principal Fellow and Head of the Electrochemical and Corrosion Laboratory. The Principal Fellow position at TI is the company's highest honor for scientific and technical achievement. He is an ASTM Honorary Member, a Fellow of ASTM, NACE, and SAW, and was a Ford Foundation Postdoctoral Fellow in 1964.

Dr. Baboian has been dedicated to the research and development of corrosion resistant materials and devices, environmental effects on materials, and the use of electrochemical techniques in corrosion testing for almost 40 years. He holds 15 U.S. patents, is the editor of 13 books, and has authored over 170 technical publications. He has served on a number of Government and Academic Committees and has lectured throughout the world, and his services were donated by TI to the National Park Service as a corrosion consultant on the Statue of Liberty restoration program. Recently, he has researched the sinking of the *Titanic* and has proposed theories on corrosion mechanisms causing the failure.

Recognized for his active involvement in the technical community, Dr. Baboian has received the Cavanaugh Award and the Award of Merit from ASTM, the ASTM Dudley Award for publications, the ASTM LaQue Award for outstanding contributions to corrosion testing and evaluation, the speller Award for outstanding contributions in corrosion engineering, and the T.J. Hull Award for publications for NACE, the Science and Technology Award of the Suga Weathering Technology Foundational Japan, the Vittorio de Nora Award from the Electrochemical Society, the Francis L. LaQue Award for contributions to marine corrosion and prevention from the Federation of Materials Societies. He has served on the Exectuvie Committee and the Board of Directors of ASTM and NACE and was the Chairman of the ASTM Board of Directors in 1987. He also has chaired ASTM Committee G-1 on Corrosion of Metals, the SAE Automotive Corrosion and Protection Committee, and the NACE Research Committee.

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Sheldon W. Dean, Jr. is currently the President of Dean Corrosion Technology, Inc., a consulting firm in Allentown, Pennsylvania that provides expert advice on matters involving corrosion of metals. He is also Editor in Chief of the *Journal of ASTM*

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Dr. Hack is an Advisory Engineer for Northrop Grumman Corporation, where he does materials selection and corrosion control for underwater vehicles and systems for the Department of Defense. He received his B.S. and M.S. from Carnegie-Mellon University, and his Ph.D. in Metallurgy from Pennsylvania State University. He is the recipient of the ASTM International Award of Merit, and is past Chairman of the Board of Directors of ASTM International. Dr. Hack has received the Distinguished Service Award from NACE International, the Francis L. LaQue Memorial Award for ASTM Committee G-1 on Corrosion of Metals, and the Francis L. LaQue Award from the Sea Horse Institute. He is a NACE Corrosion Specialist, Cathodic Protection Specialist, and Coatings Inspector, a Fellow of NACE International, ASTM International, the Washington Academy of Sciences, and the Institute of Corrosion in the United Kingdom, and is a Registered Professional Engineer in Maryland. Dr. Hack is the Associate Editor for the Materials Performance and Characterization section of the *Journal of ASTM International (JAI),* is on the Materials Advisory Board for the National Air and Space Museum of the Smithsonian Institution, and is past President of the Council of Engineering and Scientific Specialty Boards. Dr. Hack has approximately 70 publications and is the author, editor, or major contributor to five books. He is the author of a regular column on corrosion in *Underwater Magazine.*

EDWARD L. HIBNER

Edward L. Hibner is a Senior Metallurgist and Code Manager at Special Metals Corporation, formerly Inco Alloys International, in Huntington, West Virginia. He received his B.S. in Chemistry from Marshall University and in Metallurgy from the University of Cincinnati. He is the recipient of the ASTM Award of Merit, the ASTM Committee G-1 Francis L. LaQue Memorial Award, the ATM Committee Fellow Award, and is currently Vice-Chairman and the Editorial Review Chairman of ASTM committee G-1 on Corrosion of Metals. He has served as Chairman and as Trustee of the West Virginia Section of NACE International and is currently service on the NACE MR0175/ISO 15156 Maintenance Panel. He has extensive experience in alloy development for chemical process, flue gas desulfurization, marine, and oil field

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JOHN R. SCULLY

John R. Scully received his B.S., M.S., and Ph.D. in Materials Science and Engineering from Johns Hopkins University. While pursuing his Ph.D., he worked at David Taylor Naval Ship R&D Center in Annapolis, Maryland in the Marine Corrosion Branch. He then joined Sandia National Laboratory after a term as a Visiting Scientist at AT&T Bell Laboratories. In 1990, he joined the faculty of the Department of Materials Science and Engineering at the University of Virginia and is a full professor and co-directs the Center for Electrochemical Science and Engineering. Professor Scully received the 1985 A.B. Campbell Young Author Award from NACE. He has also been selected as a National Science Foundation Young Investigator, and has received the H. H. Uhlig Award for NACE and the William Blum Award from the Electrochemical Society. Professor Scully has published over 10 technical papers and edited several books on corrosion.