

About the Authors

Andrew F. Oberta, MPH, CIH— The Environmental Consultancy

Andy Oberta is an asbestos guru--and a former rocket scientist--who holds the unique combination of Aeronautical Engineering and Master of Public Health degrees. His career segued from designing rocket propulsion systems to contamination control for interplanetary spacecraft to air pollution to asbestos control, in which he has specialized for over thirty years.



He is Certified in Comprehensive Practice by the American Board of Industrial Hygiene and is licensed as an asbestos consultant in Texas. He is accredited according to EPA asbestos regulations as an Inspector, Management Planner, and Project Designer for schools and for public, commercial, and industrial buildings. Internationally recognized for his work in the asbestos control field, he has consulted and lectured in ten foreign countries as well as in the United States. His clients have included major commercial and industrial firms as well as government agencies and educational institutions. Andy currently serves as the asbestos consultant for a system of schools throughout Texas operated by a conference of churches. Manual 23 draws extensively on his experiences, including many projects and research activities that he has performed and managed, as well as litigation support related to the management and health effects of asbestos-containing materials. Andy doesn't just tell these stories, he is part of them.

Andy joined the National Asbestos Council as a charter member and eventually served as president of the Environmental Information Association, as the organization later became known. He received the Jack Snider, Jr. Lifetime Achievement Award for his service to EIA. He has chaired the American Industrial Hygiene Association Asbestos subcommittee and is a Fellow of the AIHA. He has served on EPA expert panels on sampling and analysis of vermiculite attic insulation and on the

Alternative Asbestos Control Method. Andy supports the work of the Asbestos Disease Awareness Organization as an advocate for asbestos victims worldwide.

He joined ASTM in 1986 as Chairman of Task Group E06.24.03 on Asbestos Management and the Task Group developed four of the standards (**E1368**, **E1494**, **E2356**, and **E2394**) discussed in this manual. Recently, these standards have come under the jurisdiction of Subcommittee D22.07 on Sampling and Analysis of Asbestos, and Andy continues to serve as the Technical Contact for these standards as well as **D7886** developed by D22.07. He remains a member of Committee E06 on Performance of Buildings and is also a member of Committee E50 on Environmental Assessments.

Andy has always considered sharing knowledge with others to be one of his professional responsibilities, and for many years he has conducted asbestos training courses nationwide. As part of this commitment he served as the lead instructor in the ASTM *Standards for Asbestos Control* courses for several years. His publications and presentations are listed on his website at www.asbestosguruoberta.com. He has made his insights available to a wider audience through the training and information technology products that he produces and distributes through Environment-i-media, Inc.

Sean M. Fitzgerald, P.G.—President, Scientific Analytical Institute, Inc.

Mr. Fitzgerald is a professional geologist and microscopist with 25 years experience managing growing businesses, laboratories, and scientific investigations across the country, including extensive work from Alaska to Hawaii and from Alabama to Vermont, specializing in the mineralogy and geology of the asbestos-forming minerals and the science of asbestos in the laboratory. He has been guest speaker at asbestos workshops and conferences as well as local, state, and federal regulatory meetings and reviews, and advises private and governmental entities on issues of asbestos regulation, science, and process development. As a scientist, Sean is expert and instructor for PLM and PCM light microscopy, microprobe, TEM and SEM electron microscopy, AA, IC, HPLC, and ICP wet chemistry techniques, and mineral phase identification by XRF and XRD. Mr. Fitzgerald has been retained and has given testimony as an expert witness and researcher on asbestos in soils, asbestos in talc, naturally occurring asbestos, and asbestos in household products, releasability testing, and lung tissue fiber burden analysis, with his work appearing before English Parliament and the US Senate, as well as state and local courts from New York to California. Mr. Fitzgerald has authored numerous papers on asbestos geology and mineralogy, has served as peer review for asbestos control documents, and is currently an author for peer-reviewed articles, periodicals, and books, including works for the American Society of Safety Engineers' Professional Safety Journal (PSJ), the Geologic Society of America (GSA), the International Journal of Occupational and Environmental Health (IJOEH), and ASTM



International. He has spoken on asbestos issues before the Environmental Information Association (EIA; formerly the National Asbestos Council: NAC), the Asbestos Disease Awareness Organization (ADAO), the American Industrial Hygiene Association (AIHA), and at the National Press Club in Washington, D.C. Mr. Fitzgerald is also an active member of ASTM International D22, and is a consistent contributor and presenter at both Johnson and Beard ASTM D22 periodical conferences focused on asbestos.

Alan M. Segrave, PG—Bureau Veritas North America, Inc.

Alan Segrave is the Division Manager for the Microscopy Laboratory of Bureau Veritas North America, Inc. He holds a B.S. in Geology from the University of Louisiana, Lafayette, is a professional geologist, and has 27 years of experience in environmental laboratory management, consulting, and business development. He specializes in materials characterization, asbestos, and nano materials by electron microscopy. He is an expert in mineral identification, serving as an expert witness in product liability and personal injury cases in numerous



states and federal jurisdictions. Mr. Segrave has 22 years of experience directing and managing laboratory operations. He is skilled in troubleshooting methods, quality control, root cause investigations, and problem solving. Since 1992, he is an active member of ASTM International, currently serving as Vice-Chairman of D22.07 on Sampling and Analysis of Asbestos. He is the principal author of ASTM **D7521-13**, "Test Method for Determination of Asbestos in Soil," and assisted in developing ASTM **D5755/D5756** methods. He is also a technical member of ASTM Committee E56 on Nanotechnology, an active member of the Nanotechnology Coalition, and AIHA Nanotechnology Working Group.

Jeanne Spencer, Reservoirs Environmental, Inc.—CEO/President, Laboratory Director

Ms. Spencer is the President and CEO of Reservoirs Environmental, Inc., a full-service environmental testing laboratory specializing in asbestos, organic, inorganic, and microbiological analyses. She joined Reservoirs in 1987 as the laboratory director. Under her leadership Reservoirs gained its NVLAP Air/Bulk accreditation for asbestos and AIHA-LAP accreditation for metals and microbial analysis. The laboratory provides full analytical services to governmental agencies, industrial clientele, as well as concerned homeowners. Prior to working at Reservoirs, she worked at Battelle Memorial Institute for a period of eight years where she was directly involved in the research and development of analytical procedures adopted by the US EPA for the analysis of asbestos air



samples by transmission electron microscopy. Ms. Spencer received her B.S. Degree in Microbiology from the Ohio State University.

As a technical expert in electron microscopy Ms. Spencer specializes in analytical services and the development of analytical methods. She is currently actively involved in the environmental industry both locally and nationally. Reservoirs Environmental Inc. has been an EPA contract lab for the Libby, Montana Superfund Project since 1999. She participates in ASTM committees developing the standards for the analysis of asbestos, mold, and other forms of airborne particulate. She also participates in the development of the asbestos, lead and methamphetamine regulations for the State of Colorado, as well as participating as a U.S. delegate to the ISO Task Analytical Group 146.

Due to expertise in the identification of asbestos-type minerals, Jeanne Spencer (Jeanne Orr), along with Dr. Eric Chatfield, Dr. James Millette, and Dr. Greg Meeker formed the panel invited by the U.S. EPA Office of Research and Development to develop a method for the characterization of fibrous amphibole content in vermiculite attic insulation. The result of the project was the "Research Method for Sampling and Analysis of Fibrous Amphibole in Vermiculite Attic Insulation" EPA/600/R-04/004 commonly known as the Cincinnati method. Participation in the development of methods as well as technical expertise has made Ms. Spencer a leading contributor and teacher in the field of Environmental Science; this includes current and past staff members and frequent presentations at technical events such as the ASTM Beard and Johnson conferences.