

PROFILE



THOMAS G. GARDNER, PH.D.

Senior Chemist

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Thomas Gardner is an accomplished scientist with more than 20 years of experience practicing and teaching in the fields of organic and inorganic chemistry and materials analysis.

ROLE AND RESPONSIBILITIES

As a senior chemist in Crane Engineering's in-house laboratory, Tom is responsible for characterizing materials, detecting trace contaminants, developing analytical methods and conducting materials failure analyses. A creative researcher with a passion for invention and discovery, he works closely with clients to help solve their forensic engineering problems.

EXPERIENCE

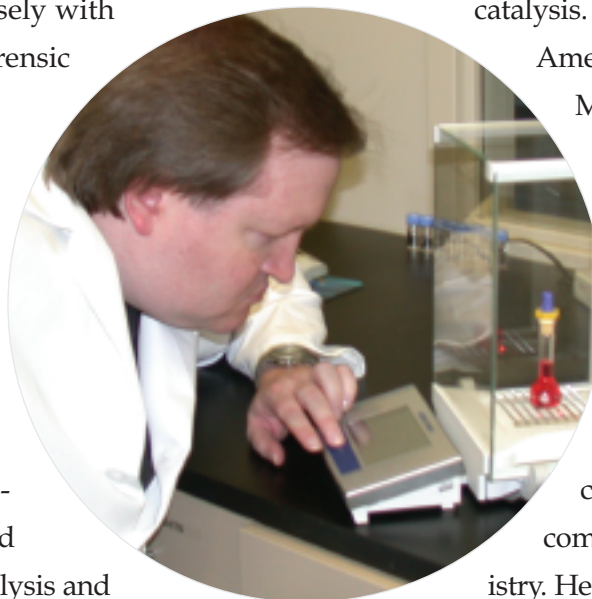
Prior to joining Crane Engineering, Tom was a lead scientist in the materials testing, analysis and characterization laboratory of a leading medical technology company, where he headed spectroscopy and surface analysis and established a research program to study nanotechnology-based medical device surfaces. Previously, he was a college chemistry professor for 12 years, most recently at Muhlenberg College,

where he received the Faculty Research Development Award for his chemical synthesis projects. He has also served as a senior scientist in the chemical synthesis lab of a major office automation and electronics provider and as an academic editorial consultant for textbook and software publishers.

EDUCATION AND INVOLVEMENT

Tom holds a bachelor of arts degree cum laude from Macalester College with a triple major in chemistry, physics and mathematics; a doctorate in inorganic and organometallic chemistry from the University of Illinois at Urbana; and has done post-doctoral work in the field of homogeneous catalysis. He is a member of the

American Chemical Society, the Materials Research Society, the Minnesota Microscopy Society and other associations. A frequent presenter at chemistry conferences, Tom also lectures on computational chemistry at colleges nationwide and is currently writing a book on computational inorganic chemistry. He has authored books on chemical education, has been a columnist and editor for the journal *The Chemical Educator* and has submitted a number of patent applications for new materials and coating formulation development.



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