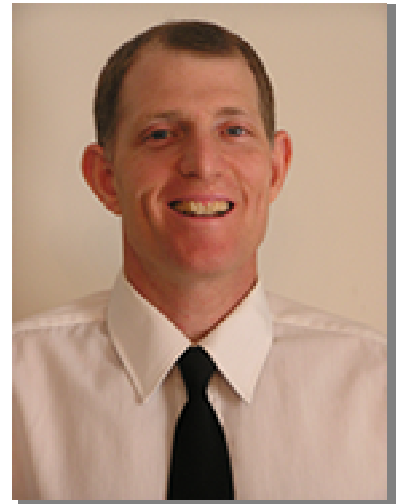


TOM DOGGART, P.E.

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EDUCATION:

- 1994 **Master of Science in Materials Science**, concentrating in Precision Manufacturing
University of Connecticut
Thesis: “Chipping of Nitrided Surfaces: Causes and Solutions”
- 1989 **Nuclear Submarine Officer Training**,
United States Navy – Extensive managerial and technical training on the Theory, Operation and Maintenance of seagoing nuclear powered vessels. Culminating in an Officer’s qualification in Submarines in 1991.
- 1987 **Bachelor of Science Mechanical Engineering**, Cum Laude
University of Connecticut
- 1987 **Bachelor of Science Materials Engineering**, Cum Laude
University of Connecticut

EXPERIENCE:

- Mar 04 **Director and Principal Engineer**, Nomad Metallurgy Inc, Fort Mill SC
Present Owner and Managing Engineer of an Independent Metallurgical Consulting Firm
- Providing metallurgical and materials engineering services to various clients, ranging from ongoing materials engineering support to continuing operations, through major failure and litigation projects down to individual quality tests.
- Jun 02 **Director and Principal Engineer**, Stork – Herron Testing Laboratories, Charlotte NC
- Mar 04 P&L, Managerial and Engineering responsibility for an independent 12 person A2LA accredited testing lab offering Chemical, Mechanical, Metallurgical and NDE testing
- Provided materials engineering services to a wide variety of industrial and legal customers. Managed the 12 person staff working in the metallic chemical testing, mechanical testing, metallurgical testing and non-destructive evaluation fields, in a \$1+ million/yr facility.
- Mar 96 - **Chief Materials Engineer**, PerkinElmer Centurion Mechanical Seals (ex-EG&G
Mar 02 SEALOL)

Responsible for all material related functions including, design, specification, testing, process design and trouble shooting, failure analysis and customer interactions.

Provided materials engineering, testing, quality assurance and manufacturing process development for \$30+ million/yr an aerospace and engineered seals company. This included the use of 6-sigma and lean manufacturing techniques to develop 3 novel welding manufacturing processes, NADCAP and ISO quality system creation and maintenance

May 94 - **Assistant QA Manager / Mechanical Testing Lab Manager**, Danaher Tool Group-WH
Mar 96
Managed an A2LA accredited 10 person fastener testing laboratory while responsible for all failure analysis, plant wide process improvement and scrap reduction.

Provided materials engineering, process development and quality assurance for a threaded fastener and hand tool manufacturing facility that processed ~1 million lbs or steel part/mo.

Sep 92 - **Graduate Assistant/Lab Manager**, UCONN Center for Grinding Research and
Feb 94
Development
Oversaw industry sponsored research, saving sponsor ~\$100K/yr. Managed all functions of the CGRD Materials Characterization Lab and undergraduate metallurgy laboratory class.

May 87 - **Naval Submarine Officer**, USS Blueback (SS-581) / USS LaJolla (SSN-701)
Sep 91
Responsible for the operation, maintenance and management of operational submarines.

Provided personnel management, tactical assessment and implementation, operation and maintenance of various seagoing nuclear and conventionally powered submersible naval vessels.

Nov 92- **Naval Reserve Officer**, Office of Naval Research, Science & Technology, Raleigh NC
Present

Provided real work technical expertise to naval research projects aimed at affecting current and future naval vessels and production methods.

REGISTRATIONS:

Professional Engineer in Connecticut, 19049

Professional Engineer in Texas, #85672

Professional Engineer in North Carolina, #029065

Professional Engineer in South Carolina, #23697

PROFESSIONAL ORGINIZATIONS/CERTIFICATIONS:

- 03/03/2002** Six Sigma, PerkinElmer Corporate Green Belt
- 1999 – Present** High School Science Fair Judge (~5 fairs per year including the Intel International Science & Engineering Fair)
- 4/1998** PADI Scuba Diver
- 9/17/1991** US Navy Qualification in Submarines - Officer

ASM International	ASM	Chairman RI Chapter 2001-2
National Association of Corrosion Engineers	NACE	Member
National Society of Professional Engineers	NSPE	Chairman SCPE-Catawba
American Welding Society	AWS	Chapter 2007 Member

CONTINUING EDUCATION:

- 6-11/1987** New Port RI US Navy Officer Candidate School
- 2-4/1989** Old Saybrook CT New London Diving PADI Open Water Diving Course
- 6/1989** New London CT US Navy Submarine Officer Basic Course (SOBC)
- 10/8/1994** Branford CT Gary Chapman Atlantic NDT Training Magnetic Particle Inspection, Level I & II Training
- 10-12/1994** West Hartford CT Danaher Corporate Training 5-S Facility Organization and Kaizen Lean Manufacturing Training
- 11/2-3/1994** West Hartford CT Joseph DeCarlo Excel Partnership, Inc. ISO 9000 Quality System Auditing
- 2/1995** Orlando FL US Navy Naval Operations Analysis Correspondence Course (NAVEDTRA 13102-A1)
- 04/4//1995** Worchester MA Johnson Gage Company External and Internal Thread Design and Gaging
- 6/23/1995** Windsor CT Roger LaChance ASM International Testing, Inspection & Quality Control
- 6/16/95** Boston MA Mitutoyo Gage Calibration
- 6/1995** Materials Park OH ASM International “Elements of Metallurgy” MEI Correspondence Course #062

8/1995	Warrendale PA	The Minerals, Metals & Materials Society	“Metallurgical Engineer – PE Refresher Course”
6/1/1995	Materials Park OH	ASM International	“Refresher Course in Metallurgical Technology” MEI Correspondence Course
6/3-5/1996	Fort Lee NJ	S. R. Schmidt Air Academy Press	“Mastering the Art of Statistical Thinking”
7/22-25/1996	Fort Lee NJ	S. R. Schmidt Air Academy Press	Design of Experiments, “Blending the best of the Best Experimental Design Techniques”
8/1997	Waltham MA	William Curan EG&G Sealol	Facilitator Training Program
11/3/1998	East Hartford CT	Fred Pryor Seminars	Accounting for Non-Accountant Managers
02/21/1999	New Haven CT	Roland Holstead US Navy	Officer Leadership Course
2-5/1999	Warwick RI	Frank McCain Ocean State Testing Inc	Gas Tungsten Arc Welding Course – 80 hr hands on class
2/1/2001	Materials Park OH	ASM International	Chapter Leadership Training
02/6/2001	Materials Park OH	ASM International	Surface Engineering Processes for Wear & Corrosion
08/11/2001	Raleigh NC	William Collette US Navy	Naval Reserve Officer Leadership Course
10-12/2001	Beltsville MD	Udaya Talwar PerkinElmer Centurion Seals	Six Sigma Specialist “Basic Statistics & Design of Experiments”
10/15 - 17/2001	Providence RI	H. Thielsch PE Thielsch Engineering	Failures, Failure Prevention, Maintenance and Repairs of Pressure Vessels, Boiler Piping and Rotating Machinery
2/11 - 12/2002	Warwick RI	Dominick DaCosta FAA/DER/DAA	“FAA Regulatory Familiarization regarding Major Repairs & Alterations, and Modifications”
9/2002	Orlando FL	US Navy	Mathematics: Basic Math & Algebra Correspondence Course (NAVEDTRA 14139)

8/2003	Orlando FL	US Navy	Steel Worker Volume 1: Unit 1 Correspondence Course (NAVEDTRA 14250)
2/6/2003	Charlotte NC	Al Brazell	NACE Charlotte Section NACE Cathodic Protection Tutorial II
01/12-16/2004	Laguna Beach CA	Steve Bosworth Bosworth & Kenney Selling	Customer Centric Selling
12/2004	Orlando FL	US Navy	Hull Maintenance Technician: Unit 1 Correspondence Course (NAVEDTRA 14119)
8/2005	Orlando FL	US Navy	Airborne Turbine Engine Maintenance Correspondence Course (NAVEDTRA 14008)
3/7-10/2006	Columbia MD	A2LA	Assessor Orientation Course (ANS/ISO/IEC 17025 Laboratory Quality Management)
10/2006	Materials Park OH	ASM International	“Fundamentals and Applications of Powder Metallurgy” – MEI Correspondence Course # 0132
11/21/2006	Charlotte NC	Dr Kenneth Humphreys, PE CCE UNCC	“The Ethical and Professional Responsibility of Engineers and Project Managers” – 8 PDH
1-2/2007	Rock Hill SC	York Tech Continuing ED	ASM Intl. “Metallurgy for the Non- Metallurgist” 3.2 CEU (Instructor)

PUBLICATIONS:

“Chipping of Nitrided Surfaces: Causes and Solutions,” M.S. Thesis, University of Connecticut, May 1994

“Chipping of Sharpened, Nitrided Spool Valve Edges: Problem Diagnosis and Solutions,” Technical Papers – Society of Manufacturing Engineers, Proceeding of the NAMRC XXIII Conference, May 24-26 1995, with Hemant Gupta, Ph.D. and Trevor Howes Ph.D.

“Nitriding Induced Embrittlement,” Journal of Materials Processing and Manufacturing Science, V4, N4, April 1996, with Hemant Gupta, Ph.D.

“Investigation of Spalling of Case-Hardened Nitralloy,” Journal of Material Science, V32, N8, Apr 15 1997, with Hemant Gupta, Ph.D.