

MICHAEL J. NUTT

Current home: 108 Whispering Brook Drive, Nicholasville, KY 40356 (suburb of Lexington, Kentucky)

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Born September 2, 1948 in Livermore, California

Home: Dublin, California 1948-1961

Elementary school: Grades 1-7, Murray Elementary, Dublin, California 1955-1961

Home: Hayden Lake, Idaho 1962-1972

Elementary school: Grade 8, Hayden Lake Elementary, Hayden Lake, Idaho 1962

High School: Grade 9-12, I.H.M. Academy, Coeur d'Alene, Idaho 1963-1966

College: North Idaho College, Coeur d'Alene, Idaho – 1967-1969 - **A.A. Engineering Technology**

Employment: Preliminary survey crew, U.S. Forest Service, Coeur d'Alene, Idaho – summers

College: Montana State University, Bozeman, Montana – 1970-1972 - **B.S. Mechanical Technology**

Work toward M.S. in Experimental Psychology.

Employment: B&B Construction Co., Coeur d'Alene, Idaho –summers

Crew Chief, Preliminary survey crew, U.S. Forest Service, Libby, Montana - summer

Home: Seattle, Washington 1972-1975

Employment: Stack Steel, Seattle, Washington 1972-1975

Sales Representative 1972-1973

Heat Treat Metallurgist 1973-1975

College: University of Washington, Seattle, Washington – 1973-1974 - **B.S. Metallurgical Engineering**

Personal: married Mary Margaret (Peggy) Otway

Home: Owensboro, Kentucky 1976-1977

Employment: General Electric Company, Microwave & Imaging Devices, Owensboro, Kentucky 1976-1977

Metallurgical Engineer 1976-1977

College: University of Evansville, Evansville, Indiana - 1977

Work toward M.S. in Engineering Management.

Personal: divorced from Peg

Home: Portland, Oregon 1977-1987

Employment: Oregon Steel Mills, Division of Gilmore Steel Corp., Portland, Oregon 1977-1984

Metallurgical Engineer 1977-1979

Supervisor, Metallurgical Services 1979-1980

Plant Metallurgist 1980-1981

Manager, Metallurgical Services 1981-1984

Personal: married Dorothy Hayden, mother of two boys

Employment: Precision Castparts Corp., Portland, Oregon 1985-1986

Program Manager-Technology Modernization 1985-1986

Employment: TFA, Inc., Portland, Oregon 1986-1987

Sales Engineer 1986-1987

Home: Cordova, Tennessee 1987-2007 (suburb of Memphis, Tennessee)

Employment: Wright Medical Technology, Inc. / Dow Corning Wright, Arlington, Tennessee 1987-1998

Plant Metallurgist 1987-1991

Manager, Metallurgical Services 1991-1992

Manager, Orthopedic Research Laboratories and Metallurgical Services 1992-1998

College: University of Arkansas, Fayetteville, Arkansas – 1991-1992 - **M.S. Operations Management**

Employment: Spinal Innovations, Inc., Bartlett, Tennessee 1999 - 2004

Director, Materials Research 1999-2001

Director, Materials Research and Quality Assurance 2001-2004

Employment: Aesculap, Inc., Bartlett, Tennessee (acquired Spinal Innovations, Inc. in 2005) 2005 – 2007

Home: Nicholasville, Kentucky 2007-present

Employment: Intelligent Implant Systems, Charlotte, North Carolina 2007 - present

Chief Operating Officer 2007 - present

PROFESSIONAL

American Society for Testing and Materials (ASTM International) 1977 - present

Past-Chairman, F04.12, Subcommittee on Metallurgical Materials

2003 Leroy Wyman Award recipient

1998 M.O.S.E.S. Award recipient

American Society for Materials (ASM International) 1974 - present

PUBLICATIONS

“The Application of Ti-15Mo Beta Titanium Alloy in High Strength Structural Orthopaedic Applications”, Jablokov, V., Nutt, M., Richelsoph, M., and Freese, H., Symposium on Titanium, Niobium, Zirconium, and Tantalum for Medical and Surgical Applications, ASTM International, Washington, D.C., November 9, 2004.

“Stainless Steels for Medical and Surgical Applications”, STP 1438, Gary L. Winters and Michael J. Nutt, editors, ASTM International, West Conshohocken, PA, 2003.

“Mechanical Performance of Mixed-Metal Taper Connections”, Boggan, R.S., Carroll, M.C., Merkel, K.D., Nutt, M.J., Fifth World Biomaterials Congress, Toronto, Canada, 1996.

“The Effect of Thermal Process Treatment of Ti6Al4V on the Neck Strength of SLT Femoral Stems”, R.S. Boggan, R.D. Paxson, M.E. Carroll and M.J. Nutt, Fourth World Biomaterials Congress, Berlin, Federal Republic of Germany, 1992.

“Scandinavian Lancers Ladle Injection System - Oregon Steel Mills Start-Up”, W.J. Bottomley, M.J. Nutt, and V. Kumar, Iron and Steel Engineer, October 1980, pg. 36-40.

TRAINING

A wide variety of industrial courses in:

- Management: business management, quality control management, management action, critical path techniques, supervision, interpersonal relationships, Teamworks, Just-In-Time manufacturing.
- Quality: ISO 9001 Quality System, Good Manufacturing Practices, statistical process control, liquid penetrant inspection, geometric dimensioning and tolerancing, medical device metrology and standards.
- Testing: elastic-plastic fracture toughness, fracture toughness and fatigue crack growth, wear test selection, fatigue of composites, multiaxial fatigue, fretting fatigue methods and equipment, biocompatibility of particulate implant materials, impact testing applications, medical device performance standards, characterization of polyethylenes, testing spinal implants, modular orthopedic implants, characterization of articular surfaces, performance of bone plates, evaluation of bone grafts and cements.
- Materials: microstructural control, gating and feeding investment castings, welding, wear, metallurgical technology, ladle arc furnace, ladle injection, medical applications of titanium and its alloys, stainless steels, titanium, niobium, zirconium, and tantalum, nanotechnology and medical device materials, surface contamination and cleaning, cleanliness of medical devices, alternative bearing surfaces in total joint replacement, selection and specification of materials.
- Analysis: fractography of modern engineering materials, fractography applications in failure analysis, Designated Investigator training, scanning electron microscopy and x-ray microanalysis, fracture mechanics, x-ray spectrometry fundamentals and advances.
- Safety: Emergency Response personnel certification training, 49 CFR - Hazardous Material Handling & Transport certification training.