MICHAEL J. NUTT
Current home: 201 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 Engineering 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**

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.

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
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
General Manager 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.