

Richard G. Pigeon, M.D., Ph.D.
 Orthopaedic Associates of West Florida
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 Clearwater, Florida 33756
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Professional Employment	Private Practice, Orthopaedic Spine Surgeon Orthopaedic Associates of West Florida Clearwater, Florida	2009-present
	Staff Attending, Orthopaedic Spine Surgeon Medical Surgical Specialists Naples, Florida	2006-2008
	Medical Director, Premier Center for Spine Surgery Physicians Regional Medical Center Naples, Florida	2006-2008
	Staff Attending, Orthopaedic Spine Surgeon Cleveland Clinic Florida Naples, Florida	2006
	Associate Staff Attending, Orthopaedic Spine Surgeon Cleveland Clinic Florida Naples, Florida	2003-2005
	Attending Physician, Surgical Emergency Room University of Miami/Jackson Memorial Hospital Miami, Florida	1999-2002
	Team Physician, Sunset High School Football Team Dade County Public High School Athletic Program Miami, Florida	1999-2002
	Senior Research Engineer Exxon Research and Development Laboratories Baton Rouge, Louisiana	1992-1993
Post Doctoral Training	Fellowship, Surgery of Spinal Disorders and Deformities The Hospital for Special Surgery Weill Medical College of Cornell University, New York	2002-2003
	Residency in Orthopaedic Surgery University of Miami/Jackson Memorial Hospital Miami, Florida	1998-2002
	Internship in General Surgery University of Miami/Jackson Memorial Hospital Miami, Florida	1997-1998
Education	M.D. Yale University School of Medicine	1997
	Ph.D. Chemical Engineering, University of Notre Dame	1992
	M.S. Chemical Engineering, University of Notre Dame	1989
	B.S. Chemical Engineering, California State Polytechnic University	1987
	Certificate Construction Technology, Orange Coast College, California	1982

Honors and Awards	U.S. News and World Report “Best Doctors”	2011-2024
	Consumers’ Research Council “America’s Top Surgeons”	2008-2024
	Consumers’ Research Council “America’s Top Orthopedists”	2007-2024
	Castle Connolly America’s “Top Doctors”	2006-2024
	Yale University School of Medicine	New Haven, Connecticut
	<ul style="list-style-type: none"> • Graduated Cum Laude, 1997 • Alpha Omega Alpha Honor Medical Society, 1997 	
	Exxon Research and Development Laboratories	Baton Rouge, Louisiana
	<ul style="list-style-type: none"> • Successfully commercialized a novel Exxon proprietary catalyst, 1993 • Nominated by Laboratory Director to host site visit for Exxon Corporation President and Vice-President, 1993 • Promoted to Senior Research Engineer in one year, 1993 	
	University of Notre Dame	Notre Dame, Indiana
	<ul style="list-style-type: none"> • Primary author of \$1.2 million research proposal funded by the Department of Education, 1991 • GAANN Scholar (Graduate Assistantship in Areas of National Need), Center for Bioengineering and Pollution Control, 1989-92 • Amoco Foundation Fellowship, 1989 • Selected as Department of Chemical Engineering Representative to Engineering Advisory Council, 1988 and 1989 • National Dean's List, 1988 • Reilly Fellowship for Outstanding First-Year Graduate Student, 1987 • National Science Foundation Fellowship - Honorable Mention, 1987 	
California State Polytechnic University	Pomona, California	
<ul style="list-style-type: none"> • Graduated Magna Cum Laude, 1987 • President's Honor List, 1987 • Tau Beta Pi Engineering Honor Society, 1986 • Omega Chi Epsilon Chemical Engineering Honor Society, 1986 		
Orange Coast College	Costa Mesa, California	
<ul style="list-style-type: none"> • CRC Press Freshmen Chemistry Award, 1983 		
Licensure and Certification	• Fellow, American Academy of Orthopaedic Surgeons	2007
	• Diplomate, American Board of Orthopaedic Surgery	2005
	• Diplomate, American Board of Medical Examiners	1998
	• State of Connecticut Medical License: 047254	2008
	• State of New York Medical License: 225133	2002
	• State of Florida Medical License: ME0076624	1998
	• Drug Enforcement Administration, All Schedules: BP6053641	1998
	• Advanced Trauma Life Support	1997
	• Advance Cardiac Life Support	1997
	• Basic Life Support	1997
Professional Societies	• Pinellas County Medical Society	2009
	• Florida Orthopaedic Society	2005
	• Florida Medical Association	2004
	• North American Spine Society	2003
	• Hospital for Special Surgery Alumni Association	2003

- American Academy of Orthopaedic Surgeons 1998
- Alpha Omega Alpha Honor Medical Society 1997
- American Medical Association 1993
- Tau Beta Pi, Engineering Honor Society 1986
- Omega Chi Epsilon, Chemical Engineering Honor Society 1986

PhD Dissertation Research Chemical Reaction Engineering Considerations in the Synthesis of Silicon Nitride

- Designed and constructed a thermogravimetric apparatus operable to 1500°C
- Studied catalysis and liquid-phase densification by impregnation with oxide additives to form various silicide and silicate systems crucial for densification
- Performed mathematical modeling and kinetic analyses to predict overall conversion and formation of the α and β phases
- Developed qualitative model describing nitridation process
- Microstructural characterization including scanning electron microscopy, Auger photoelectron spectroscopy, x-ray diffraction, surface adsorption, and selective chemisorption

Research Experience

Hospital for Special Surgery New York, New York
Weill Medical College of Cornell University

- Posterior lumbar pedicle subtraction osteotomy/decancellation for fixed post-surgical sagittal imbalance syndrome (2002-03).
Preceptor: Oheneba Boachie-Adjei, MD

University of Miami/Jackson Memorial Hospital Miami, Florida
Department of Orthopaedics and Rehabilitation

- Tandem spinal stenosis. Same day surgical decompression of the cervical and lumbar spine (2000-02).
Preceptor: Mark D. Brown, MD, PhD and Frank J. Eismont, MD
- Mobile bearing total knee arthroplasty – fact or friction (2001-02).
Preceptor: Carlos J. Lavernia, MD

Yale University School of Medicine New Haven, Connecticut

- Cloning of Na^+/H^+ exchanger isoforms and K^+ -ATPase channels from rat and human brain (1994).
Preceptor: Gabriel H. Haddad, MD

Exxon Research and Development Laboratories Baton Rouge, Louisiana

- Development and commercialization of reforming catalysts for improved hydrogen yields and high-octane reformat (1992-93).

University of Notre Dame Notre Dame, Indiana
Department of Chemical Engineering

- Chemical reaction engineering considerations in the synthesis of silicon nitride (Ph.D. dissertation; 1987-93).
Preceptor: Arvind Varma, PhD
- Mathematical modeling of the fluidized bed catalytic reactor for fast reaction (1988).
Preceptor: James J. Carberry, PhD

California State Polytechnic University Pomona, California
Department of Chemical Engineering and Materials Science

- Polymerization and deposition of amorphous silica (B.S. degree; 1986-87). Preceptor: Cordellia Ontiveros, PhD

- Publications**
- Boachie-Adjei O, Ferguson JA, **Pigeon RG**, Peskin MR. Transpedicular lumbar wedge resection osteotomy for fixed sagittal imbalance: surgical techniques and early results. *Spine* 2006; 31(4):485-92.
- Timon SJ, Gardner MJ, Wanich T, Poynton A, **Pigeon RG**, Widmann RF, Rawlins BA, Burke SW. Not all spondylolisthesis grading instruments are reliable. *Clin Orthop*. 2005;434:157-162.
- Pigeon RG**, Lebowhl NH, Lenke LG, Betz RR, Harms J, Bridwell KH, Clements DH, Lowe TG, Blanke K. Classification system for adolescent idiopathic scoliosis. Letter to the editor. *J Bone Joint Surg Am*. 2002;84:1080-1081.
- Pigeon RG**, Varma A. Quantitative kinetic analysis of silicon nitridation. *J Mat Sci*. 1993;28:2999-3013.
- Pigeon RG**, Varma A, Miller AE. Some factors influencing the formation of reaction-bonded silicon nitride. *J Mat Sci*. 1993;28:1919-1936.
- Pigeon RG**, Varma A. Some chemical reaction engineering considerations in the synthesis of silicon nitride. *Chem Eng Sci*. 1992;47:2585-90. (Presented at the Proceedings of 12th International Symposium on Chemical Reaction Engineering (ISCRE), Torino, Italy, 1992.)
- Pigeon RG**, Varma A. Quantitative phase analysis of Si₃N₄ by x-ray diffraction. *J Mat Sci Lett*. 1991;11:1370-1372.
- Varma A, **Pigeon RG**, Miller AE. Kinetics of α - and β -Si₃N₄ formation from oxide-free high-purity silicon powder. *J Mat Sci*. 1991;26:4541-4544.
- Pigeon RG**, Varma A, Miller AE. The influence of silicate melts in the synthesis of reaction-bonded silicon nitride. *Proceedings of the 1990 American Institute of Chemical Engineers Annual Meeting*, Chicago, Illinois, 1990. Speaker: Pigeon RG.
- Pigeon RG**, Carberry JJ. The fluidized bed catalytic reactor: A learning model for fast reaction. *Ind Eng Chem Res*. 1990;29:1013-1019.
- Presentations**
- Boachie-Adjei O, **Pigeon RG**, Peskin MR. Posterior lumbar pedicle subtraction osteotomy/decancellation for fixed post-surgical sagittal imbalance syndrome. (Presented at Scoliosis Research Society 38th Annual Meeting, Quebec City, Canada, September 10-13, 2003. Presenter: **Pigeon RG**)
- Hobbies and Other Awards**
- Cycling, Weight Training, Skiing
 - 1990 National Physique Committee (NPC) South Bend Bodybuilding Light Heavyweight and Overall Champion
 - 1990 American Athletic Union (AAU) South Bend Bodybuilding Champion
 - Strathmore's Who's Who (2002-2003 Edition)
 - Marquis Who's Who in Medicine and Healthcare (2002-2003 4th Edition)
 - Marquis Who's Who in America (2003-2004 58th Edition)
 - Marquis Who's Who in Science and Engineering (2003-2004 7th Edition)
- Web Sites**
- <https://www.orthowestfl.com>