

Ernest Wollin, M.D., P.E., FACR

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Curriculum Vitae

2022

EDUCATION

The Bronx High School of Science, New York City 1947

New York University, Bachelor of Electrical Engineering, 1951

University of Illinois, Master of Science, Electrical Engineering, 1954

Northwestern University Medical School, M.D. 1958

MILITARY

First Lt. USAF, AO2218154, Active Duty 1951-1953

Weapons Systems Engineer

PROFESSIONAL

Project Engineer, Armament Laboratory, Wright Air Development Center, 1951-1953

Research Assistant, University of Illinois, Department of Electrical Engineering, 1953-1954

Intern, Jackson Memorial Hospital, University of Miami Medical School, 1958 to 1959

Resident in Radiology, University of California Medical Center San Francisco 1959-1962

Assistant Professor of Radiology, University of Miami Medical School, 1962 to 1964

Associate Radiologist Mt. Sinai Hospital of Greater Miami, 1964 to 1965

Founding Partner, Radiology Associates of Central Florida
1965 to 1996

Active Staff, Leesburg Regional Medical Center, Leesburg, Florida, 1965
to 2001

Radiologist, locum tenens various locations, 1998 to 2000

Active Staff, Shands AGH and UF, Sept 2000 to July 2002

Clinical Associate Professor of Radiology, University of Florida College of
Medicine 2001-2002

Radiologist, Mariner's Hospital, Fishermen's Hospital, Monroe County, FL, 2002-2007

Consulting Staff, Mariner's Hospital, Fishermen's Hospital, Monroe County, FL, July
2002 to 2007

Locum tenens, Staff Care, Various locations in Florida 2007-2008
Medical Director and Radiologist, Signet Diagnostic Imaging Services, Florida
2009-June, 2012

National Radiology Solutions (NRAD), 2009-present

SPECIALTY BOARDS

Diplomate, American Board of Radiology, 1963

Diplomate, American Board of Nuclear Medicine, 1973

LICENSES

National Board of Medical Examiners 40025

State of Florida Physician ME 0008870

State of Florida Professional Engineer PE 0020275

FAA ATP 1691875 CFI (A, SMELS I, G)

SOCIETIES

Fellow, American College of Radiology

President, Lake County Medical Society, 1976

President, Florida Radiological Society, 1983

American Roentgen Ray Society

Radiological Society of North America

American Society for Gastrointestinal Endoscopy

American Society for Head and Neck Radiology

PATENTS

“Apparatus and Method for Spatially Ordered Phase Encoding and for Determining Complex Permittivity in Magnetic Resonance by Using Superimposed Time- Varying Electric Fields” Wollin, E. US Patent No. 5,412,322 May 2, 1995, EP 0 631 151 B1, Dec 11, 2002.

“Apparatus and Method for Image Formation in Magnetic Resonance Utilizing Weak Time-Varying Gradients.” Wollin, E. US Patent No. 5,757,187, May 26, 1998

“Apparatus and Method for Resistivity Well Logging Utilizing Nuclear Magnetic Resonance” Wollin, E. US Patent No. 6,166,540, Dec. 26, 2000, U.S. Patent No. 6,342,784, Jan. 29, 2002 and US Patent No. 6,545,471, April 8, 2003.

“Magnetic Resonance Analyzing Flow Meter and Flow Measuring Method“ Wollin, E. US Patent No. 6,452,390 B1, Sept. 17, 2002, EP1230529, FR1230529, DE060030580, CN00818423, JP4808885, CA239152

“Apparatus and Method for Magnetic Resonance Measurement and Mapping of Electrical Impedance Complex Permittivity and Complex Conductivity as Applied to Detection and Evaluation of Sample Pathology” PCT WO 2004/019763 A3, March 11, 2004,

US 2005/52182 A1 Mar. 10, 2005

US 8200309 June 12, 2012

GRANTS

NIH-NCI Grant No.1R41CA115268-01 Awarded for development with Moffitt Cancer Center U So. Florida 2005-2006

PUBLICATIONS

Wollin, E., Ozonoff, M.: Serial Development of Teeth in an Ovarian Teratoma. N Engl J Med 1961; 265(18):897-89.

Garland LH, Coulson W, Wollin E: The rate and growth and apparent duration of untreated bronchial carcinoma. Cancer 1963:694-707.

Kallergi M, Wollin E, Heine JJ, Kovalchuk N, and Manohar A. Magnetic Resonance Electrical Impedance Mammography: A Pilot Study. In “Digital Mammography IWDM 2006,” Astley S, Brady M and Swigeelaar R (Eds.), Springer-Verlag, London, 2006. (Proc. 8th IWDM, Manchester, UK, June 18-21, 2006.)

Kovalchuk N, Kallergi M, Wollin E, Heine JJ, Manohar A, and Rabson D. Magnetic Resonance Electrical Impedance Mammography: A Feasibility Study. Proc. 48th Annual Meeting AAPM, Orlando, FL, July 30-Aug 3, 2006. Med Phys. 2006: 33(6):2183.

RSNA ORAL PRESENTATION

Physics (MR Imaging Techniques)

Magnetic Resonance Electrical Impedance Mammography (MREIM): Computer Simulation of Clinical Applications and Theoretical Analysis E. Wollin, M.D., PE, FACR, Sarasota, FL; J . Heine, PhD, H.L. Moffitt Cancer Research Center Nov, 2011.