

CURRICULUM VITAE

STEPHEN R. SZEGLIN

July 2012

EDUCATION:

██████████ B.A. in Pure Mathematics, Cum Laude, Adelphi University, with concentrations in computer programming.

██████████ - M.S. in Mathematics and Physics, Long Island University, with concentrations in advanced computer programming.

██████████ - Completed preceptorship in Medical Physics, Downstate Medical Center.

PROFESSIONAL EXPERIENCE:

October 2006 - Present

Senior Staff Medical Physicist: Best Medical International, Springfield, VA.

March 2007 – March 2009

Acting General Manager: Huestis Medical, Bristol, RI, a subsidiary of Best Medical International with facilities in Bristol, RI, Taunton, MA, and Gilberts, IL.

Best Medical International is an international radio-pharmaceutical company. Huestis Medical is a capital equipment manufacture specializing in radiation therapy treatment simulators, collimators for diagnostic x-ray equipment, remanufactured radiographic and fluoroscopic equipment, and products for the wire and cable industry.

March 1995 – March 2006

General Manager: PTW-New York Corporation, Hicksville, NY, retired.

PTW-New York, a subsidiary of PTW-Freiburg located in Freiburg, Germany, is a medical dosimetry company specializing in ionization chambers, electrometers, and other radiation measurement devices used to calibrate machines that produce medical amounts of diagnostic and therapeutic ionizing radiation. Primary responsibilities included assisting the design team in the development of new dosimetry products for calibration and QA in diagnostic and therapeutic radiology, product sales, technical support and repair services, regulatory compliance, trademark and patent submissions.

April 1984 - March 1995

Director of Research and Development, Radiation Safety Officer and Chief Medical Physicist, Nuclear Associates, Carle Place, NY.

CURRICULUM VITAE

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Design, develop, install and provide technical support for various types of test equipment used for QA/QC programs in diagnostic radiology, radiation therapy and other medical radiation applications, medical device regulatory compliance, and to assist in patent and trademark submissions.

August 1977 - March 1984

Medical Physicist and Radiation Safety Officer at various hospitals in the New York City area. Perform a wide variety of clinical Medical Physics duties in radiation therapy, diagnostic radiology, and nuclear medicine.

September 1976 - August 1977

Assistant to the Radiation Safety Officer and Associate Radiation Physicist: Downstate Medical Center, Brooklyn, New York.

Assist the Radiation Safety Officer in the performance of daily duties while in training as a Medical Physicist.

September 1974 - September 1976

George Washington Middle School, West Hempstead, New York.
Mathematics Teacher.

July 1973 - September 1974

Test Design Engineer for Automatic Test Equipment: PRD Electronics, Syosset, New York.
Develop computer programs for automatic test equipment.

PUBLICATIONS AND PRESENTATIONS:

July 2005: "Two-Dimensional (2D) Ion Chamber Array for Radiation Dose Verification Including IMRT", 47th annual meeting of the American Association of Physicists in Medicine.

August 2003: "Choice of Radiation Detectors on the Quality of Commissioning Accelerator Beam Data", 45th annual meeting of the American Association of Physicists in Medicine.

July 2002: "Leaves Position Accuracy and Quality Assurance of MLC with an Ion Chamber Array", 44th annual meeting of the American Association of Physicists in Medicine.

July 2002: "Micro analysis and Temporal Characterization of Small MU Segments in IMRT", 44th annual meeting of the American Association of Physicists in Medicine.

July 1999: "Acrylic test phantom for measuring PDD and beam profiles", 41st annual meeting of the American Association of Physicists in Medicine.

August 1998: "Factors to be considered when using Helium-Neon laser scanning systems to perform routine analysis of therapy QC films", 40th annual Meeting of the American Association of Physicists in Medicine.

CURRICULUM VITAE

STEPHEN R. SZEGLIN

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November 1996: "Dosimetric characteristics of an improved radiochromic film", Published in Medical Physics, Vol. 23, No. 11.

July 1994: "A New Improved Medical Electrometer", 36th Annual meeting of the American Association of Physicists in Medicine.

November 1992: "Third-Party Monitoring of Mammography Image Quality", Certificate of Merit Awarded. 78th Scientific Assembly & Annual meeting of the Radiological Society of North America.

August 1992: "Analysis of the Factors Used to Determine the Accuracy, Reproducibility, and Measurement Stability of a Scanning Densitometer, 34th annual meeting of the American Association of Physicists in Medicine.

August 1992: "The Diamontor M-2 Exposure Measuring Device as a Tool to Assess Residents Proficiency at Fluoroscopy", and "Mammography Image Quality Using Digital Analysis", 34th annual meeting of the American Association of Physicists in Medicine.

July 1991: "A New System and Method for Standardizing and Monitoring Image Quality in Mammography", 33rd annual meeting of the American Association of Physicists in Medicine.

July 1990: "Software to Comply with JCAHO Standards to Monitor Radiation", 32nd annual meeting of the American Association of Physicists in Medicine.

August 1987: "A New Scanning Technique for Electron Depth Dose Curves with Beveled IORT Cones", 29th annual meeting of the American Association of Physicists in Medicine.

September 1985: "Recent Developments in Computer Applications and Control of Water Dosimetry Equipment", New Jersey Medical Physics Society.

October 1984: "Computer Controlled Dosimetry", annual meeting of the American Association of Medical Dosimetry.

August 1982: "I-123 Thyroid Uptake Phantom Dosimetry", 24th annual meeting of the American Association of Physicists in Medicine.

July 1982: "Scheduled vs. Unscheduled Maintenance of Radiological Equipment", 19th annual conference of the American Society for Hospital Engineering.

July 1980: "Using Statistical Analysis to Write Standards, Codes, and Preventive Maintenance Programs", 6th International Congress of Hospital Engineering, International Federation of Hospital Engineering.

November 1978: "X-Ray Equipment Maintenance and Repair", NYC Biomedical Engineering Society.

CURRICULUM VITAE

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TEACHING EXPERIENCE:

September 1983 - January 1984

Manhattan College, Riverdale, New York.

Adjunct Associate Professor Radiological Health Sciences.

September 1981 - August 1984

School of Nuclear Medicine Technology, Hospital Center at Orange, Orange, New Jersey.

Instructor, Nuclear Medicine Technology.

September 1978 - October 1980

NYC Community College Brooklyn, New York.

Adjunct Professor, Radiological Science.

CERTIFICATIONS:

New York State Certification of Teaching, [REDACTED].

New Jersey Certification of Teaching, [REDACTED].

HONOR SOCIETIES:

Pi Mu Epsilon, National Mathematics Honorary, March 1972.

PROFESSIONAL SOCIETIES:

American Association of Physicists in Medicine, Member, 1977.

Chairman of the Scientific Exhibits Committee for the 25th Annual Meeting.

Radiological and Medical Physics Society of New York, Member, 1976.

New Jersey Medical Physics Society, Member, 1980.

Secretary and Treasurer, 1983 – 1984.

PROFESSIONAL COMMITTEES:

Technical Electronic Products Radiation Safety Standards Committee, TEPRSSC, US Food and Drug Administration, Member 1998 - 2001.

American Association of Physicists in Medicine, Science Council, Computer, Task Group No. 11, Information Transfer from Beam Data Acquisition Systems – Published.

CURRICULUM VITAE

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July 2012

American Association of Physicists in Medicine, Science Council, Diagnostic X-Ray Imaging, Task Group No. 22, Testing of Film Processors – Published.

American Association of Physicists in Medicine, Administrative Committee, Meeting Coordination Technical Exhibits Subcommittee, Past Member.

American College of Medical Physicists, Corporate Council Committee, Past Member.

American College of Radiology (ACR), Mammography Film Focus Study Group, Participant.

MILITARY SERVICE:

United States Navy, [REDACTED] Combat Veteran, Viet Nam [REDACTED]