

CURRICULUM VITAE

Paul B. Geis

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Place of Birth: Chicago, Illinois

Education

Year	Degree	Field of Study	Institution
1994	Ph.D.	Space Physics	Rice University, Houston, Texas
1987	B.S.	Astronomy	Case Western Reserve University, Cleveland, Ohio

Postdoctoral Training (Medical Physics)

1995 - 1996 Stanford University School of Medicine, Stanford, California
1994 - 1995 University of Texas M.D. Anderson Cancer Center, Houston, Texas

Professional Appointments

2011 - present Associate Administrative Director and Assistant Professor
Department of Radiation Oncology, Case Western Reserve University,
University Hospitals, Cleveland, Ohio

2005 - 2011 Clinical Assistant Professor
Department of Radiation Oncology, Northeast Ohio Medical University,
Rootstown, Ohio

2002 - 2004 Clinical Assistant Professor
Department of Radiation Oncology, Drexel University College of
Medicine, Philadelphia, Pennsylvania

1998 - 2001 Assistant Professor
Department of Radiation Oncology, MCP Hahnemann School of
Medicine, Philadelphia, Pennsylvania

1996 - 1998 Clinical Instructor
Department of Radiation Oncology, Stanford University School of
Medicine, Stanford, California

Employment History

Oct 2011 - present Senior Medical Physicist, Department of Radiation Oncology,
University Hospitals, Cleveland, Ohio

2005 - 2011 Director of Medical Physics, Department of Radiation Oncology,
Summa Health System, Akron, Ohio

2001 - 2004 Director of Medical Physics, Department of Radiation Oncology,
Allegheny General Hospital, Pittsburgh, Pennsylvania

1998 - 2000 Senior Medical Physicist, Department of Radiation Oncology,
Allegheny General Hospital, Pittsburgh, Pennsylvania

1996 - 1998 Staff Physicist, Department of Radiation Oncology,
Stanford University School of Medicine, Stanford, California

Professional Certifications

1998 Board Certification, American College of Radiology,
Therapeutic Radiological Physics

2005 - present Certified Radiation Expert: Therapeutic, Bureau of Radiation Protection,
Ohio Department of Health. Responsible for Summa Health System's
Radiation Oncology Program (multi-campus)

Society Affiliations and Appointments

2011 – present Ohio State Radiological Society

1994 - present American Association of Physicists in Medicine

Awards and Honors

1987 Rice Presidential Fellowship, four year salary support award for promising
graduate researchers, awarded by Rice University, Houston, Texas

Editorial Board Member

2000 - 2007 Associate Guest Editor, Medical Physics

Professional Service

2011- present	Chairman of Physics Subcommittee, Ohio State Radiological Society
2011	Co-Chairman, Joint Committee on Ohio Regulatory Affairs, Penn-Ohio Chapter of the American Association of Physicists in Medicine
2000, 2004	President, Penn-Ohio Chapter of American Association of Physicists in Medicine

Committee Appointments

2005 – 2011	Radiation Safety Committee, Akron City Hospital, Summa Health System
2005 - 2011	Radiation Generating Equipment Committee, Akron City Hospital, Summa Health System
2009 - 2011	Information Technology Coordination Committee, Summa Health System
2009 - 2011	Quality Improvement Committee, Department of Radiation Oncology, Summa Health System
2003 - 2004	Information Services Initiatives Committee, Allegheny General Hospital
2001 - 2004	Radiation Safety Committee, Allegheny General Hospital
2003	Resident Selection Committee, Department of Radiation Oncology, Allegheny General Hospital

Teaching Activities: Resident and Medical Student

2011 - present	Instructor, University Hospitals Radiation Oncology Physics Residency Program, 80 hours/year
2011 - present	Instructor, University Hospitals Radiation Oncology Physician Residency Program, 40 hours/year
2005 - 2011	Radiation Physics and Oncology instruction, medical students, Northeast Ohio Medical University. Two students formally mentored in 2010 during Radiation Oncology electives, 10 - 40 hours/year
2000 - 2003	Physics Coordinator, Allegheny General Hospital Radiation Oncology Physician Residency Program. Duties included didactic and lab teaching, course coordination, and resident evaluation, 40 - 80 hours/year
1998 – 2000	Instructor, Allegheny General Hospital Radiation Oncology Physician Residency Program, 20 - 40 hours/year
1997 - 1998	Instructor, Stanford University Physician Residency Program, 10 - 20 hours/year

Grant Support

1995 - 1996 Radiotherapy Using Computer Controlled Treatment Systems
National Research Service Award
National Institutes of Health, National Institute of General Medical
Sciences, #F32 GM18264-01 \$52,300 PI: Arthur Boyer
Role: Supported Fellow

1991 - 1993 Graduate Fellowship Award
Texas Space Grant Consortium, National Aeronautics and Space
Administration \$15,000
Role: Supported Fellow

Publications

Published Papers

1. Stansbery EK, Few AA, **Geis P**: A Global Model of Thunderstorm Electricity, *Journal of Geophysical Research* 98:16-591, 1993.
2. **Geis P**, Boyer AL, Wells NH: Use of a Multileaf Collimator as a Dynamic Missing Tissue Compensator, *Medical Physics* 23(7): 1199-1205, 1996.
3. Followill D, **Geis P**, Boyer AL: Estimates of Whole-Body Dose Equivalent Produced by Beam Intensity Modulated Conformal Therapy, *Int. J. Radiat. Oncol. Biol. Phys.* 38(3): 667-672, 1997.
4. Boyer AL, **Geis P**, Grant W, Kendall R, Carol M: Modulated Beam Conformal Therapy for Head and Neck Tumors, *Int. J. Radiat. Oncol. Biol. Phys.* 39(1): 227-36, 1997.
5. Ma L, **Geis P**, Boyer AL: Quality Assurance for Dynamic Multileaf Collimator Modulated Fields Using a Fast Beam Imaging System, *Medical Physics* 24(8): 1213-1220, 1997.
6. Adler JR jr, Chang SD, Murphy MJ, Doty J, **Geis P**, Hancock SL: The Cyberknife a Frameless Robotic System for Radiosurgery, *Sterotact. Funct. Neurosurg.*, 68 (1-4 Pt 2): 124-128, 1997.
7. Ma L, Boyer AL, Findley D, **Geis P**, Mok E, Application of a Video-Optical Beam Imaging System for Quality Assurance of Medical Accelerator, *Phys. Med. Biol.*, 43 (12): 3649-3659, 1998.
8. Chang SD, Murphy M, **Geis P**, Martin DP, Hancock SL, Doty JR, Adler JR jr. Clinical Experience with Image-Guided Robotic Radiosurgery in the Treatment of Brain and Spinal Cord Tumors, *Neurol. Med. Chir.*, 38 (1): 65-70, 1999.
9. Xia P, **Geis P**, Xing L, Ma C, Findley D, Forster K, Boyer AL: Physical Characteristics of a Miniature Multileaf Collimator: *Medical Physics*, 26 (1): 65-70, 1999.
10. Wu A, Lee C-C, Johnson M, Brown D, Benoit R, Miller R, Cohen J, **Geis P**, Chen A, Kalnicki. A New Power Law for Determination of Total ¹²⁵I Seed Activity for Ultrasound-Guided Prostate Implants: Clinical Evaluations, *Int. J. Radiat. Oncol. Biol. Phys.* 47(5):1387-1493, 2000.

Poster and Oral Presentations

1. Few AA, Stansbery EK, **Geis P**: Model Calculations of the Integrated Upward Current from Thunderstorms and Thunderstorm Complexes. EOS Trans. AGU, 1988.
2. Few AA, **Geis P**, Stansbery EK: Diagnostic Applications of Thunderstorm Electric Monitoring. EOS Trans. AGU, 1989.
3. **Geis P**, Blakeslee RJ, Few AA, Stansbery EK, Christian HJ: A Global Model of Thunderstorm Electricity. Presented at the International Conference on Atmospheric Electricity, 1992.
4. **Geis P**, Boyer AL: A Comparison of Multileaf Collimator and Dynamic Collimator Field Shaping. Presented at the Southwest American Association of Physicists in Medicine Conference, 1994.
5. Grant W, Carol M, **Geis P**, Boyer AL: A Study of Inverse Planning by Simulated Annealing for Photon Beams Modulated by a Multileaf Collimator. Presented at the American Association of Physicists in Medicine Annual Meeting, 1995.
6. Boyer A, Xing L, **Geis P**, Curran B, Hill R, Kania A: Theory of Monitor Unit Calculations for X-ray Beam Modulations with a Multileaf Collimator. Presented at the American Association of Physicists in Medicine Annual Meeting, 1997.
7. **Geis P**, Forster K, Xia P, Mok E, Xing L, Boyer AL: Physical Characterization of a Multileaf Collimator. Presented at the American Society for Therapeutic Radiology and Oncology Meeting, 1997.
8. **Geis P**, Hill R, Siochi A, Kalnicki S, Larson S, Curran B, Wu A: A Comparison of IMRT Leaf-Sequencing Algorithms. Presented at the NOMOS Users' Group Meeting, American Society for Therapeutic Radiology and Oncology, 1998.
9. **Geis P**: Intravascular Brachytherapy for Physicists: AGH's Initial Experience. Presented at the Annual AAPM Penn-Ohio Fall Symposium, 2000.
10. **Geis P**, Vukich L: Life Without a 'Real' Simulator; AGH's Virtual Simulation Experience. Presented at the Annual AAPM Penn-Ohio Fall Symposium, 2001.
11. **Geis P**: IMRT: Coming To A Clinic Near You. Presented at the Tri-State Radiation Oncology Conference, 2001.

12. Andrews J, **Geis P**, Blaugrund, Colonias A, Fuhrer R, Vukich L, Miller L, Trombetta M, Parda, D: The Superiority of a 3D Conformal Plan Compared to an IMRT Plan for Squamous Cell Carcinoma of the Paranasal/Nasal Sinus. Poster Presentation at the National Medical Association Annual Convention, 2002.
13. **Geis P**, Hill R, Xia P: Intensity Modulated Radiotherapy: Treatment Delivery Systems. Presented at the Annual Siemens User's Meeting, 2002.
14. **Geis P**, Vukich L: Conventional Simulation to Virtual Simulation. Presented at the American Society of Radiologic Technologists Radiation Therapy Conference, 2003.

Reviews and Chapters

1. Contributing Author, 2002 - 2004, Module 5: Physics Fundamentals for Radiation Therapy, Web-Based Dosimetry Training Tool, published by Stanford University, <http://www.dosimetrytrainingtool.com>