

## **Silviu Marcel Marcu, M.S.**

Assistant Professor  
University Hospitals at Southwest General Health Center  
Department of Radiation Oncology  
18697 Bagley Road  
Middleburg Heights, Ohio 44130

### **EDUCATION:**

#### **Degrees:**

M.S. 1994-1996 McMaster University, Hamilton, Ontario, Canada  
*Medical Physics*

1976-1981 University of Bucharest, Romania  
*Master of Science, Engineering Physics*

#### **Certificates:**

2002-present The ABR Certified Therapeutic Radiologic Physics  
2002-present The ABMP Certified Radiation Oncology Physics  
2001-present Certified Radiation Expert, Ohio Department of Health  
2010 Tomotherapy, Customer Physics Training Program  
2008 MammoSite; Targeted Radiation Therapy Training Program

### **EXPERIENCE:**

2004 - present **Medical Physicist**  
University Hospitals Southwest General Health Center, Department  
of Radiation Oncology

2000 – 2004 **Medical Physicist**  
Cleveland Clinic Foundation, Department of Radiation Oncology,  
Cleveland, Ohio

1999 **Medical Physicist**  
Joe Arrington Cancer Research and Treatment Center, Lubbock,  
Texas

1998-1999 **Junior Medical Physicist**  
Ireland Cancer Center, University Hospitals of Cleveland,  
Cleveland, Ohio

1994-1998 **Teaching Assistant**  
Department of Physics, McMaster University, Hamilton Cancer  
Center, Research Department, Hamilton, Canada

1992 – 1993 **Q/C Inspector**  
Ferrotec GmbH, Kreuztal, West Germany

1981 – 1991 **Physics Engineer**  
Chemical Works Fagaras, Romania

#### **Teaching:**

2004 – present **Instructor**  
University Hospitals, Department of Radiation Oncology

## Medical Physics Course for Radiation Oncology Residents

### HONORS AND AWARDS:

1997 – 1998            The COG, Candu Owner's Group, bursary

### PROFESSIONAL SOCIETY:

2000 – present            American Association of Physicists (AAPM)  
   Penn-Ohio Chapter

### PUBLICATIONS:

1.    **S.M. Marcu** et al: GammaPlan – “Leskell Gamma Knife Radiosurgery Treatment Planning Verification”, Med. Phys Journal, Vol 27 p2146-2149, September 2000.
2.    **S.M. Marcu**, W.V. Prestwich: “A Statistical Investigation of the Scaling Factor Method of Beta-Ray Dose Distribution Derivation: The Scaling Factor Water to Bone”, Medical Physics Journal, Vol. 25 p1472-1477, August 1998.
3.    **S.M. Marcu**, W.B. Prestwich: “Scaling Factor Method for Dissimilar Media Planar Interface”, Medical Physics Journal, Vol. 25 p1479-1486, August 1998.
4.    **S.M. Marcu**, W.V. Pestwich: “Determination of the Scaligh Factor Water to Bone by a Direct Shape Examination of Energy-Depth Deposition Curves Produced by Isotropic Monoenergetic beta Emitters”, Canadian Radiation Protection Association – Annual Conference Abstracts, Trois-Riviere, Quebec, June 9-12, 1996.