

## CURRICULUM VITAE

J Victor Weir PhD.  
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### EDUCATION

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**1989 – 1993** BSc., University of Minnesota, Minneapolis, MN  
**1996 – 1999** MSc., University of Minnesota, Minneapolis, MN  
**1999 – 2008** PhD., University of Minnesota, Minneapolis, MN

### ACADEMIC APPOINTMENTS

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**1999 – 2007** Adjunct Physics instructor, Century Community College, White Bear Lake, MN

### SERVICE AWARDS

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**2004:** 5 years of service Century Community College, White Bear Lake, MN

### REVIEWS in 2009

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- Served as a reviewer for the IEEE: The Engineering in Medicine and Biology Conference 2009 (EMBC 2009)

### EXPERIENCE

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- 8 years experienced teaching Basic Physics as well as other courses at Century Community College in Minnesota. Courses were designed to provide students with the skills and knowledge to go in to the fields of Radiologic Technology and Engineering.

### RESEARCH INTERESTS

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- I am also interested in the Material Science and Physics of rare earth compounds. Particularly, using Density Functional Theory (DFT) to design novel new materials, by understanding how crystal structures, electronic structures and optical properties, influence factors useful for the detection of x-rays

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## PRESENTATIONS

1. **Weir V**, Zhang J, Fajardo L, Hsiung H, Ritenour ER, Dosimetric characterization of a cone beam O-arm system, AAPM 50<sup>th</sup> Annual meeting, July 27-31, 2008, Houston, USA.
2. **Weir V**, Effect of nanoparticle size on the quantum efficiency of  $\alpha$ -Al<sub>2</sub>O<sub>3</sub>: C luminescent phosphors. Presented at the AAPM North Central Chapter Meeting in 2004

## PUBLICATIONS

1. Andrew Ferstl, Bayram Tekin, **Victor Weir**. Gravitating instantons in 3 dimensions. Phys. Rev. D. 62, 2000.
2. **Victor Weir**, Jie Zhang, and E Russell Ritenour. Effect of multiple dopants on the quantum efficiency of LiF thermoluminescent dosimeters (TLD) and BaFX (X = Br,Cl,I) storage phosphors. Proceedings of SPIE–Volume 6510 Medical Imaging 2007: Physics of Medical Imaging, Jiang Hsieh, Michael J. Flynn, Editors, 65103Z (Mar. 15, 2007).
3. Zhang J, **Weir V**, Jing Ying Lin, Hsiung H, Ritenour ER. Image quality of a cone beam O-arm 3D imaging system,” Proc. SPIE, Vol. 7258, Physics of Medical Imaging 725850 (13 March 2009)
4. **Weir V**, Zhang J, Fajardo L, Hsiung H, Ritenour ER, Dosimetric characterization of a cone beam O-arm system,’ Journal of X-ray Science and Technology (in press)
5. **Weir V**; “Effect of doping on the electronic structures and optical properties of CsI ”. Ph.D Thesis University of Minnesota, Minneapolis, MN (2008)