

Curriculum Vitae

Mike Melnichuk

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Education

B.S. in Physics & Minor in Mathematics (August, 1995) University of Houston (UH)

Ph.D. in Physics (December, 2004) (UH)

Postdoctoral Research Associate in Biophotonics (Present) (UWM)

Professional and Honorary Societies

American Physical Society

Chronology of Experience

February 1996 – August 1997, Production Engineer/Supervisor, Daily Instruments Corp.

Fall Semester 1997, Post-baccalaureate, Physics (UH)

Spring 1998 – Fall 1999, Teaching Assistant, Physics (UH)

Spring 2000 – Spring 2001, Research Assistant, Physics (UH)

Fall 2001 – Spring 2002, (50%) Teaching and (50%) Research Assistant, Physics (UH)

Fall 2002 – Fall 2004, Teaching Assistant, Physics (UH)

January 2005 – May 2005, Administrator/Supervisor, Physics Learning Center (UH)

June 2005 – Present, Postdoctoral Research Associate in Biophotonics (UWM)

Journal Article Publications

1. "Fraunhofer diffraction to determine the twin angle in single crystal BaTiO₃," Mike Melnichuk and Lowell T. Wood, *Appl. Opt.* **42**, 4463-4467 (2003).

2. "Method for measuring off-diagonal Kerr coefficients by using polarized light transmission," Mike Melnichuk and Lowell T. Wood, *J. Opt. Soc. Am. A* **22**, 377-384 (2005).

3. "Time-resolved optical transients in tetragonal BaTiO₃," Mike Melnichuk and Lowell T. Wood, *J. Opt. Soc. Am. A* **22**, 734-744 (2005).

4. "Determining selected quadratic coefficients in noncentrosymmetric crystals," Mike Melnichuk and Lowell T. Wood, *J. Opt. Soc. Am. A* **23**, No. 5, 7 *journal pages; page numbers-not provided yet*, May (2006).

Contributed Talks (Abstracts)

"Determination of the Twin Angle in Single Crystal BaTiO₃ Using Fraunhofer Diffraction" Mike Melnichuk and Lowell T. Wood (Paper presented at the American Physical Society Meeting, Austin, TX, March 2003).

Fields of Research Interest

Biophysics, Optics, Condensed Matter – experimental and/or theoretical.

