

BIOGRAPHICAL SKETCH

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Professional Preparation:

Princeton University, Princeton, NJ	Physics	B.A. 1974
Cornell University, Ithaca, NY	Physics	M.S. 1980
Cornell University, Ithaca, NY	Theoretical Physics	Ph.D 1981
Ohio State University, Columbus, OH	condensed matter theory	1980-1982

Appointments:

1993-2004 Associate Professor, Department of Physics, Colorado School of Mines, Golden, CO
2004 Sabbatical appointment, Laboratoire d'Optique des Solides, Université Pierre et Marie Curie, Paris.
1994-1995 Visiting Scientist, Solid State Theory Group, National Renewable Energy Laboratory, Golden, CO
1989-1993 Assistant Professor, Department of Physics, Colorado School of Mines, Golden, CO
1986-1989 Senior Scientist, Solid State Theory Group, Solar Energy Research Institute, Golden, CO
1982-1986 Staff Scientist, Solar Energy Research Institute, Golden, CO
1980-1982 Postdoctoral research associate, Department of Physics, Ohio State University, Columbus, OH. (University Postdoctoral Fellow, September 1980-August 1981)
1975-1980 Research Assistant, Cornell University, Ithaca NY

Closely-Related Publications:

1. "Effects of hydrogen ambient and film thickness on ZnO:Al properties", Joel N. Duenow, Timothy A. Gessert, David M. Wood, Anne C. Dillon, and Timothy J. Coutts, *J. Vac. Sci. Technol. A* **26**, 692-696 (2008).
2. "Transparent conducting zinc oxide thin films doped with aluminum and molybdenum", Joel N. Duenow, Timothy A. Gessert, David M. Wood, Teresa M. Barnes, Matthew Young, Bobby To, and Timothy J. Coutts, *J. Vac. Sci. Technol. A* **25**, 955-960 (2007).
3. "Effects of hydrogen content in sputtering ambient on ZnO:Al electrical properties" Joel N. Duenow, Timothy A. Gessert, David M. Wood, David L. Young, and Timothy J. Coutts, *Proceedings of the 22nd International Conference on Amorphous and Nanocrystalline Semiconductors (ICANS 22)*, *J. Non-Crystal. Solids* **354**, 2787-2790 (2008).
4. "Investigation of ZnO:Al doping level and deposition temperature effects on CIGS solar cell performance", Joel N. Duenow, Timothy A. Gessert, David M. Wood, Brian Egaas, Rommel Noufi, and Timothy J. Coutts, in *Thin Film Compound Semiconductor Photovoltaics---2007*, T. Gessert, S. Marsillac, T. Wada, K. Durose, C. Heske, Eds., MRS Symposium Proceedings vol. 1012 (Materials Research Society, Warrendale PA, 2007), 1012-Y01-08.
5. "High-mobility, sputtered films of indium oxide doped with molybdenum", Yuki Yoshida, David M. Wood, Timothy A. Gessert, and Timothy J. Coutts, *Appl. Phys. Lett.* **84**, 2097-2099 (2004).

Graduate Advisor: Professor N. W. Ashcroft, Laboratory of Atomic and Solid State Physics, Cornell University, Ithaca, NY

Post doctoral advisor: Prof. David Stroud, Department of Physics, Ohio State University, Columbus, OH