

# DR. GREGORY G. KENNING

## Objective:

To obtain a permanent, full time Research or Research/Teaching Position.

## Education:

Michigan State University	Ph.D. in Physics awarded in 1988
Queens University	M.Sc. in Physics awarded in 1983
University of Manitoba	B.Sc.(Hons) in Physics awarded in 1981

## Professional experience:

7/2000-Present University of California, Riverside	<u>Associate Adjunct Professor</u>
6/1999-7/2000 NOVA R&D	<u>Sales and Marketing Director</u>
1/1995-7/1999 Kengen Technologies Inc.	<u>Research Director</u>
1/1995-7/2000 University of California, Riverside	<u>Lecturer</u>
6/1993-1/1995 University of California, Riverside	<u>Assistant Research Physicist</u>
11/1988-6/1993 University of California, Los Angeles	<u>Assistant Research Physicist</u>

## Patents:

- 1) **Automated Electrophoresis and Analysis**  
US Patent No. 5,717,602 Issued 1998
- 2) **Magnetic Body Scanner**  
Patent Pending, Filed April by UC Regents 2002

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## Publications:

Kenning, G.G., Rodriguez, R. Moslemi, A. Wilson, S., Hawel, L., Byus, C. and Kovach, J., **Use of SQUID Magnetometry to Non-Invasively Detect and Locate Magnetically Labeled Cancers: A Feasibility Study**, Submitted to the Journal of Applied Physics July, 2003.

Rodriguez, G., Kenning, G.G. and Orbach, R. . **Full Ageing in Spin Glasses**, Physical Review Letters, Vol. 91, No. 3, 037203-1, July 18, 2003.

Zotev, V. S., Rodriguez, G. F., Kenning, G.G. Orbach R., Vincent E. and Hammann, J. **"The Role of Initial Conditions in Spin-Glass Aging Experiments"**, Physical Review B, 6718(18):4422, 2003 May 1.

Zotev, V.S.; Kenning, G.G.; Orbach, R. **From linear to nonlinear response in spin glasses: Importance of mean-field-theory predictions**. Physical Review B (Condensed Matter and Materials Physics), vol.66, (no.1), APS through AIP, p.014412/1-10, 1 July 2002.

Kenning, G.G.; Joh, Y.G.; Chu, D.; Orbach, R. **Thermoremanent magnetization as a probe of the field-quenched states in spin glasses**. Physical Review B (Condensed Matter), vol.52, (no.5), p.3479-831, Aug. 1995.

Chu, D., Kenning, G.G. and Orbach R., **Effect of Magnetic Field on the Relaxation of the Thermoremanent Magnetization in Spin-Glasses**, Philosophical Magazine B 71, 479 (1995)

Chu, D.; Kenning, G.G.; Orbach, R. **Dynamic measurements in a Heisenberg spin glass: CuMn**. Physical Review Letters, vol.72, (no.20p.3270-3) ), 16 May 1994.

Kenning, G.G.; Chu, D.; Orbach, R. **Irreversibility crossover in a Cu:Mn spin glass in high magnetic fields: evidence for the Gabay-Toulouse transition**. Physical Review Letters, vol.66, (no.22), p.2923-6, 3 June 1991.

Mattsson, J.; Granberg, P.; Lundgren, L.; Nordblad, P.; Kenning, G.; Cowen, J.A., **Nonlinear susceptibility of 2D spin glass films**. Journal of Magnetism and Magnetic Materials, vol.104-107, pt.3, (ICM), 1991.

Kenning, G.G., Chu, D., Alavi B, Hammann, J.M. and R. Orbach, **Magnetic Field Dependence of T<sub>g</sub> in Bulk Cu: Mn and Cu:Mn/Cu Multilayer Systems**, Journal of Applied Physics 69(8), 5240 (1991).

Kenning, G.G.; Bass, J.; Pratt, W.P., Jr.; Leslie-Pelecky, D.; Hoinés, L.; Leach, W.; Wilson, M.L.; Stubi, R.; Cowen, J.A. **Finite-size effects in Cu-Mn spin glasses**. Physical Review B (Condensed Matter), vol.42, (no.4), p.2393-415, 1 Aug. 1990.

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Granberg, P.; Nordblad, P.; Svedlindh, P.; Lundgren, L.; Stubi, R.; Kenning, G.G.; Leslie-Pelecky, D.L.; Bass, J.; Cowen, J. **Dimensionality crossover in CuMn spin-glass films.** *Journal of Applied Physics*, vol.67, (no.9, pt.2B), (Thirty-Fourth Annual Conference on Magnetism and Magnetic Materials, Boston, MA, USA, 28 Nov.-1 Dec. 1989, p.5252-4. ) 1 May 1990.

Sandlund, L.; Granberg, P.; Lundgren, L.; Nordblad, P.; Svedlindh, P.; Cowen, J.A.; Kenning, G.G. **Dynamics of Cu-Mn spin-glass films.** *Physical Review B (Condensed Matter)*, vol.40, (no.1), p.869-72, 1 July 1989.

Cowen, J.A., Kenning, G.G. and J. Bass, **Finite Size Effects in a Metallic Spin Glass,** *Journal of Applied Physics* 64,5781 (1988).

Kenning, G.G.; Slaughter, J.M.; Cowen, J.A. **Finite-size effects in a CuMn spin-glass.** *Physical Review Letters*, vol.59, (no.22), p.2596-9, 30 Nov. 1987.

Magnetic Susceptibility and Magnetic Resonance of a Compositionally Modulated Spin Glass Film. J.A. Cowen, G.G. Kenning and J.M. Slaughter. *Journal of Applied Physics* 61,8 (1987).

Gaunt, P. Kenning, G.G. and Ram, U.S., **Magnetic Viscosity in MnAlC,** *Journal of Applied Physics*, 53 (1981).

## Contributed papers:

Determination of the Spinglass Phase Space Distribution using TRM and IRM Measurements  
Gilberto F. Rodriguez, G.G. Kenning, R. Orbach *Bulletin of the American Physical Society*,  
March 2001.

Evaluation of the Branching Ration Within a Barrier Model of Spin Glasses J.D. Bowen, R.  
Orbach, G.G. Kenning *Bulletin of the American Physical Society*, March 2001.

Evidence for the Gabay-Toulouse Transition in CuMn., G.G. Kenning, *ITCP Conference on  
Neural Networks and Disordered Systems*, Trieste, July 1991.

Dynamics of a Heisenberg Spin Glass in the presence of Transverse Freezing. D. Chu, G.G.  
Kenning and R. Orbach, *Bulletin of the American Physical Society*, March 1991.

Irreversibility Cross-over in a CuMn Spin Glass in High Magnetic Fields, Evidence for the  
Gabay-Toulouse Transition. G.G. Kenning, D. Chu and R. Orbach, *Bulletin of the American  
Physical Society*, March 1991.

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Magnetic Characterization of CuMn Multilayer Systems, G.G. Kenning and O. Klein, Bulletin of the American Physical Society, March 1990.

The Dependence of Finite Size Effects in CuMn on Mn Concentration, G.G. Kenning, J. Bass and J.A. Cowen, Bulletin of the American Physical Society, March 1988.

Studies of CuMn/Cu Layered Spin Glasses J. Bass, G.G. Kenning and J.A. Cowen, Bulletin of the American Physical Society, March 1988.

Finite Size Effects in an RKKY Spin Glass, G.G. Kenning, J. Slaughter and J.A. Cowen, Bulletin of the American Physical Society, March 1988.

The Electronic Properties of Ag-row Impurities in Na and Cs, G.G. Kenning and Eugene Zaremba, Canadian Association of Physicists 1983 (poster).

## References:

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