



Faculty Directory

The College

AS News

Alan  
Middleton  
Professor,  
Physics and  
Department  
Chair Physics



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213 Physics Building  
Phone: 315-443-2408

**Chair Office**  
201-C Physics Building  
Phone: 315-443-3901

**Curriculum Vitae**

## Research Interests

- Condensed matter and statistical physics.
- Disordered materials, such as random magnets and interfaces in a random environment.
- Computational physics.
- Links between ideas for algorithms and

## Education

1990	Ph.D. in Physics Princeton University
1985	Certificate of Advanced Study (Part III Maths) Cambridge University
1984	B.S. in Physics and Mathematics with distinction Harvey Mudd College

## Awards & Professional Honors

- Fellow of the American Physical Society, 2010 - present
- Alfred P. Sloan Foundation Fellowship, 1995-1999

## Selected Publications

"Exact algorithm for sampling the two-dimensional Ising spin glass", Creighton K. Thomas, A. Alan Middleton. Physical Review E 80, 046708 (2009).

"Statistics of static avalanches in a random pinning landscape", Pierre Le Doussal, A. Alan Middleton, Kay Joerg Wiese, Physical Review E 79, 050101 (2009).

"Are Domain Walls in Spin Glasses Described by Stochastic Loewner Evolutions?", D. Bernard, P. Le Doussal, and A. Alan Middleton, Physical Review B 76, 020403(R)(2007).

"The three-dimensional random field Ising magnet: interfaces, scaling, and the nature of states", A. Alan Middleton and Daniel S. Fisher, Physical Review B 65, 134411 (2002).

"Collective Transport in Arrays of Small  
Metallic Dots", Physical Review Letters 71,  
3198 (1993). A. Alan Middleton and Ned S.  
Wingreen.

## College Directories

**Arts and Sciences  
Faculty**

**Full Time Faculty, By  
Department**

**Instructors, By  
Department**

**Humanities Faculty  
Fellows**

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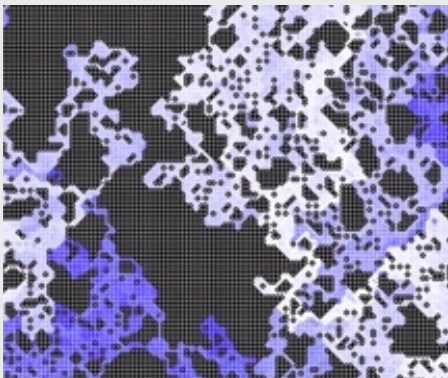
**Physics**

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**Syracuse University  
Directory**

**Arts and Sciences  
Directory Lists**

## Research Spotlight



Visualization of  
clusters and  
multifractal walls found

in computer  
simulations of a  
disordered material.

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