



## Professor Francis J. Pinski

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Department of Physics  
University of Cincinnati  
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### EDUCATION

B.Math., University of Minnesota, Minneapolis, Minnesota, 1973.  
Ph.D., University of Minnesota, Minneapolis, Minnesota, 1977.

### EXPERIENCE

Professor, University of Cincinnati, 1992- present.  
Head, Department of Physics, January 1999-August 2004.  
Associate Professor, University of Cincinnati, 1987-1992.  
Graduate Program Director, Physics, 1990-1992; 1995-1996, 1997-1998.  
Assistant Professor, University of Cincinnati, 1981-1987.  
Visiting Professor, Department of Physics, University of Warwick, UK, September 1996-August 1997, January 2005-December 2005.  
Visiting Scientist, Los Alamos National Lab, Summer 1986.  
Visiting Scientist, Lawrence Livermore National Lab, January-December 1989.  
Consultant, Oak Ridge National Lab, 1988-1993.  
Visiting Scientist, Oak Ridge National Lab, Summer 1983, Summer 1984, September 1986-August 1987.  
Visitor, University of Bristol, UK, February-December 1985.  
Postdoctoral Fellow and Research Assistant Professor, University of Pennsylvania, 1980-81.  
Postdoctoral Fellow, SUNY Stony Brook and Oak Ridge National Lab, 1977-80.

### RESEARCH INTERESTS

Theoretical condensed matter physics, electronic structure of metals and alloys, magnetism, first principles calculation of phase diagrams, electron-phonon interaction in transition metals, structure of classical and quantum fluids, determination of free-energy barriers in classical systems.

### AWARDS

Sigma-Xi, Young Researcher of the Year, Cincinnati Chapter, 1986.  
CRAY Research, Inc., Gigaflop Performance Award, 1990.

## INVITED TALKS-MEETINGS

- "Integrated Raman intensity in  $^4\text{He}$ ," NATO Advanced Study Institute on Correlation Functions and Quasiparticle Interactions in Condensed Matter, Wayzata, Minnesota, August, 1977.
- "Successful predictions of electron-phonon properties in d-band metals," Symposium on Electron-Phonon Interactions, APS Meeting, Chicago, March, 1979.
- "Alloy theory, magnetism, high temperature band theory and the residue theorem," 11th Midwest Solid State Theory Symposium, October, 1983.
- "Solving Schrodinger's equation at complex energies," Solid State Physics Conference of the Institute of Physics, Reading, December, 1985.
- "Magnetism in alloys," 14th Midwest Solid State Theory Symposium, Naperville, Illinois, October 1986.
- "On the theory of ordering in alloys," AIME, The Society of Metals (TSM), Cincinnati, Ohio, October, 1987.
- "Quantum mechanics and metallurgy: Never the twain shall meet?," Ohio Section, American Physical Society, Bowling Green, November, 1990.
- "Origins of ordering in alloys: A First-Principles Landau Theory," Seventh International Conference on Many Body Physics, Minneapolis, August, 1991.
- "Short Range Order in Alloys," The American Physical Society, Pittsburgh, March, 1994.
- "Theory and Calculations for Transition Metal Alloys," Ninth Conference on Computational Research on Materials, Morgantown, W.Va., May, 1999.

## Ph.D. STUDENTS

Duane D. Johnson, 1985.  
William A. Shelton, 1989.

John F. Clark, 1993.  
Dereje Seifu, 1994.

Mahdi Sanati, 1999.  
Manuel Valera, 2002.

## POST-DOCS

Niels Rosengaard (1993-1994)  
John Mikalopas (1992-1996)

John Clark (1994-1995)  
Russ Bielby (1998-1999)