

CURRICULUM VITAE

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EDUCATION:

1988 Ph.D. in Physics, University of California, Berkeley, California
1982 B.S. in Physics, Stanford University, Stanford, California

EMPLOYMENT:

1997 - Associate Professor, Department of Physics, University of Minnesota
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1988 - 91 Research Associate, Department of Physics & Division of Applied Sciences,
 Harvard University, Postdoctoral Advisor: J. Golovchenko
1983 - 88 Graduate Student Research Assistant, Department of Physics, University of
 California at Berkeley, Thesis Advisor: J. Clarke
1982 - 83 Consultant, Gemological Research Corporation
1981 Research Assistant, Centre d'Etudes Nucleaires de Saclay
1980 Research Assistant, Stanford Nuclear Physics Department
1979 Systems Programmer, Advanced Systems Division, XEROX Palo Alto Research
 Center
1977 - 79 Research Assistant and Consultant, Lockheed Solar Observatory, Lockheed Palo
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MEMBER:

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RECENT INVITED TALKS:

PUBLICATIONS:

“New isorecticular metal-organic framework materials for high hydrogen storage capacity”, T. Sagara, J. Ortony, and E. Ganz, *J. Chem. Phys.* **123**, 214707 (2005).

“Binding energies of hydrogen molecules to isorecticular metal-organic framework materials”, T. Sagara, J. Klassen, J. Ortony, and E. Ganz, *J. Chem. Phys.* **123**, 014701 (2005).

“Computational study of hydrogen binding by metal-organic framework-5”, T. Sagara, J. Klassen, and E. Ganz, *J. Chem. Phys.* **121**, 12543 (2004).

- “Investigation of triptycene-based surface-mounted rotors”, S. Hou, T. Sagara, D. Xu, T. R. Kelly and E. Ganz, , *Nanotechnology* **14**, 566 (2003).
- “Adsorption of TiCl_4 and initial stages of Ti growth on Si(001)”, T. Mitsui, E. Hill, R. Curtis, and E. Ganz, *J. Vac. Sci. Tech. A.* **19**, 563 (2001).
- “Diffusion of hydrogen on the Si(001) surface investigated by STM atom tracking”, E. Hill, B. Freelon, E. Ganz, *Phys. Rev. B.* **60**, 15896 (1999).
- “Selective Nanoscale Growth of Titanium on the Si(001) Surface Using an Atomic Hydrogen Resist”, Toshiyuki Mitsui, Rob Curtis, and Eric Ganz, *Journal of Applied Physics* **86**, 1676 (1999).
- “Nanolithography by Selective Chemical Vapor Deposition with an Atomic Hydrogen Resist”, Toshiyuki Mitsui, Eric Hill, and Eric Ganz, *Journal of Applied Physics* **85**, 522, (1999).
- “STM Studies of Boron-Doped Si(001)”, J. -F. Nielsen, H. -J Im, J. P. Pelz, M. Krueger, B. Borovsky, and E. Ganz, *J. Vac. Sci. Tech. A* **17**, 1670 (1999).
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- “An STM study of the adsorption of toluene on Si”, Brian Borovsky, Michael Krueger, and Eric Ganz, *J. Vac. Sci. Tech. B* **17**, 7 (1999).
- “Metastable absorption of benzene on the Si(001) surface”, B. Borovsky, M. Krueger, E. Ganz, *Phys. Rev. B* **57**, 4269 (1998).
- “Metastable Structures in the Initial Stages of Si Homoepitaxy”, B. Borovsky, M. Krueger, E. Ganz, *Surf. Rev. and Lett.* **5**, 1053 (1998).
- “Diffusion of Adsorbed Si Dimers on Si(001)”, M. Krueger, B. Borovsky, E. Ganz, *Surf. Sci.* **385**, 146 (1997).
- “The Diffusion of the Si Dimer on Si(001): New Possibilities above 450K”, B. Borovsky, M. Krueger, E. Ganz, *Phys. Rev. Lett.* **78**, 4229 (1997).
- “Ultrahigh Vacuum High Speed Scanning Tunneling Microscope”, R. Curtis, T. Mitsui, E. Ganz, *Rev. Sci. Instr.* **68**, 2790 (1997).
- “Direct Tests of Microscopic Growth Models using Hot STM Movies”, C. Pearson, M. Krueger, and E. Ganz, *Phys. Rev. Lett.* **76**, 2306 (1996).

- "Si(001) Step Dynamics", C. Pearson, B. Borovsky, M. Krueger, R. Curtis and E. Ganz, Phys. Rev. Lett. **74**, 2710 (1995).
- "Hot STM Study of B Type Step Edges and Small Si Islands on Si(001)", C. Pearson, M. Krueger, R. Curtis, B. Borovsky, X. Shi, and E. Ganz, J. Vac. Sci. Tech. A **13**, 1506 (1995).
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- "A Compact Micropositioner for Use in Ultra High vacuum", R. Curtis, C. Pearson, P. Gaard, and E. Ganz, Rev. Sci. Inst. **64**, 2687 (1993).
- "Metastable Structural Surface Excitations and Concerted Adatom Motions: A STM Study of atomic motions within a semiconducting surface", J. Golovchenko, I.-S. Hwang, E. Ganz, and S. K. Theiss, Mat. Res. Soc. Symp. Proc. **295**, 41 (1993).
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