

## **John B. Rundle: Colorado**

### **Education**

Ph.D., Geophysics and Space Physics, UCLA (1976)

M.S., Geophysics and Space Physics, UCLA (1973)

B.S.E., Engineering Physics, Princeton University (1972), *magna cum laude*

### **Professional Experience**

Professor, Department of Physics

Fellow, Cooperative Institute for Research in Environmental Sciences, University of Colorado (1996–)

Director, Colorado Center for Chaos and Complexity, University of Colorado

Associate Professor, Departments of Physics and Geology (1993–1996)

Physicist, Lawrence Livermore National Laboratories (1990–1993)

Member of Technical Staff, Sandia National Laboratories (1977–1990)

Visiting Scholar, Condensed Matter Theory Group, Department of Physics, Boston University (1988–1989, concurrent with above)

Visiting Associate, Calif. Institute of Technology (1981–1984, concurrent with above)

Postdoctoral Fellow, U. Calif. Los Angeles (1976–1977)

Teaching Fellow, Department of Physics, University of Illinois (1974–1974)

### **Honors and Awards**

National Merit Finalist

*Magna Cum Laude*, Princeton University, 1972.

Phi Beta Kappa, Princeton University, 1972

Tau Beta Pi, Princeton University, 1972

Sandia National Laboratories: Exceptional Contribution Award for Fundamental Research (\$2500 Award)

US Geological Survey, Branch of Geologic Risk Assessment, Best Paper 1989 (with G. King & R. Stein, \$500 Award)

Association Lecturer, International Association of Seismology and Physics of the Earth's Interior, Wellington, NZ, 1994.

Award for Outstanding Contributions in Geosciences Research, given at the Geosciences Research Symposium, Lawrence Berkeley National Laboratory, April, 1996, by the Geosciences Research Program, Office of Basic Energy Sciences, US Department of Energy.

Distinguished Visiting Scientist, Jet Propulsion Laboratory, Pasadena, California, 1995 -

### **Recent Service**

Science Advisory Panel, 1986 - Present, *Chairman* National Science Foundation, External Advisory Council for the Southern California Earthquake Center, *Member*, 1991 -*Chair*, 1995-1995; *Member*, 1997-1999

Office of Science and Technology Policy, Executive Office of the President of the United States, National Forum on Environment and Natural Resources, March 28-30, 1994, *Invited Participant*

Office of Science and Technology Policy, Executive Office of the President of the United States, National Earthquake Strategy Workshop, June 6-8, 1994, *Invited Participant*

National Aeronautics and Space Administration, Earth System Science Advisory Committee (Committee Advisory to the Associate Administrator OF NASA for Mission to Planet Earth , June 1994 - 1998, *Member*

American Geophysical Union, Technical Committee on Nonlinear Geophysics, 1997-, *Chair*

National Aeronautics and Space Administration, Solid Earth and Natural Hazards, Committee on Future Directions, Panel on Earthquakes and Crustal Deformation, 1997-1998, *Chair*

### **Five Recent Publications**

Rundle, J.B. and W. Klein, New ideas about the physics of earthquakes, *Reviews of Geophysics and Space Physics Supplement , and Quadrennial Report to the IUGG and AGU 1991-1994 (invited)*, 283-286, July, 1995.

Rundle, J.B., W. Klein, S. Gross, and D.L. Turcotte, Boltzmann fluctuations in numerical simulations of nonequilibrium threshold systems, *Phys. Rev. Lett.*, **75**, 1658-1661, 1995.

Rundle, J.B., W. Klein and S. Gross, Dynamics of a traveling density wave model for earthquakes, *Phys. Rev. Lett.*, **76**, 4285 - 4288, 1996.

Klein, W., J.B. Rundle and C. Ferguson, Scaling and nucleation in models of earthquake faults, *Phys. Rev. Lett.*, **78**, 3793-3796, 1997.

Rundle, J.B. E. Preston, S. McGinnis, W. Klein, Why earthquakes stop: Growth and arrest in stochastic fields, *Phys. Rev. Lett.*, **80**, 5698-5701, 1998.

### **Recent Principal Collaborators (last five years):**

William Klein, Boston University

Donald Turcotte, Cornell University

Suanna Gross, University of Colorado

Bernard Minster, University of California San Diego

Charles Ferguson, University of Maryland

Geoffrey Fox, Syracuse University

Jose Fernandez, University Complutense de Madrid, Spain

Ting To Yu, Academia Sinica, Taiwan

Eric Preston, University of Colorado

Seth McGinnis, University of Colorado

Joydeep Bhattacharyya, Yale University

Anne Sheehan, University of Colorado

Kristy Tiampo, University of Colorado

Louise Kellogg, University of California at Davis

Gerald Bawden, University of California at Davis

Andrea Donnellan, Jet Propulsion Laboratory

Danen Dong, Jet Propulsion Laboratory