

CURRICULUM VITAE

Teng-fong WONG

- Present Position:* Professor of Geophysics
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- Education:* 1976-80 Massachusetts Institute of Technology
Ph.D. (Geophysics)
1973-76 Harvard University
M.S. (Applied Mechanics)
1970-73 Brown University
Sc.B. (Applied Mathematics)
Magna cum laude, Sigma Xi
- Employment:* 1992- Professor, Department of Geosciences
2004- Affiliated Professor, Department of Mechanical Engineering
2004-2007 Chair, Department of Geosciences
1998-2001 Associate Dean of the Graduate School
1986-1992 Associate Professor
1982-1986 Assistant Professor
State University of New York at Stony Brook
1981-1982 Postdoctoral Associate
Department of Earth and Planetary Sciences, M.I.T.
- Professional Experience and Awards:* Member, Committee on fracture in compressive stress fields,
National Materials Advisory Board, 1981-83.
Basic Research Award, U.S. National Committee for Rock Mechanics,
National Research Council, 1986.
Visiting fellow, Research School of Earth Sciences,
The Australian National University, August - December, 1988.
Visiting professor, Department of Earth, Atmospheric,
and Planetary Sciences, M.I.T., January - July 1989.
Associate editor, *Journal of Geophysical Research*, 1989-92.
Visiting scientist, Geological Institute, Swiss Federal Institute
of Technology, Zurich, 1990, 1996.
Consulting expert panel, DOE Waste Isolation Pilot Project, 1993.
NSF grants review panel on the Northridge Earthquake, 1994.
Review panel for U.S. Rock Mechanics Annual Awards, 1992, 1995.
Review panel, DOE Laboratory Technology Research Program, 1997.
Visiting professor, University of Science and Technology, China, 1999.
Chair, Physical Properties of Earth Materials Committee, American
Geophysical Union, 1999-2002.
Mineral and Rock Physics Committee, American Geophysical
Union, 2000-2002.
Outstanding Volunteer Award, Cornell Cooperative Extension of
Suffolk County, NY, 2002.
Visiting professor, Ecole Normale Supérieure, Paris, 1998, 2003.
SUNY Chancellor's Award for Excellence in Scholarship and Creative
Activities, 2003.

Visiting professor, Universite de Strasbourg, 2003, 2008.
 Physical Sciences panel, Hong Kong SAR University Grants Committee
 Research Assessment Exercise, 2006.
 Panel member, DOE/BES Workshop on Basic Research Needs for Geosciences:
 Facilitating 21st century energy systems, 2007.
 External review committee, Department of Geological Sciences and Engineering,
 University of Nevada, Reno, 2008.
 Grants review panel, National Earthquake Hazards Reduction Program,
 U. S. Geological Survey, 1989-91, 1995-96, 2000-01, 2007, 2010, 2011.
 Advisory board, San Andreas Fault Observatory at Depth (SAFOD),
 EarthScope, 2004-8.
 Editorial board, *Earthquake Science*, 2009- .
 Louis Néel Medal of the European Geosciences Union, 2010.

Professional Organizations: American Geophysical Union; Geological Society of America;
 Seismological Society of America

Patents

Smith, C., R. Paulsen, and T.-f. Wong, *Ultrasonic Seepage Meter*,
 U.S. Patents 6,874,371 (4/5/2005); 7,107,859 (9/19/2006)

Books

Evans, B., and T.-f. Wong (ed.), "*Fault Mechanics and Transport Properties of Rocks, A Festschrift in Honor of W. F. Brace*", Academic Press, San Diego, 524 pp, 1992.

陈颢、黄庭芳 《岩石物理学》。(Chen, Y., and T.-f. Wong, "*Rock Physics*"), Peking University Press, Beijing, 231 pp, 2001.

Paterson, M.S. and Wong, T.-f., *Experimental Rock Deformation - The Brittle Field*, 2nd Edition. Springer-Verlag, New York, 348 pp., 2005.

陈颢、黄庭芳、刘恩儒 《岩石物理学》。(Chen, Y., T.-f. Wong, and E. Liu, "*Rock Physics*") USTC Press, Hefei, 584 pp, 2009.

Papers

Wong, T.-f., and W.F. Brace, Thermal expansion of rocks: Some measurements at high pressure, *Tectonophysics*, **57**, 95-117, 1979.

Wong, T.-f., Shear fracture energy of Westerly granite from post-failure behavior, *J. Geophys. Res.*, **87**, 990-1000, 1982.

Wong, T.-f., Effect of temperature and pressure on failure and post-failure behavior of Westerly granite, *Mechanics of Materials*, **1**, 3-17, 1982.

Wong, T.-f., Micromechanics of faulting in Westerly granite, *Int. J. Rock Mech. Min. Sci.*, **19**, 49-64, 1982.

Walsh, J.B. and T.-f. Wong, Gravity change due to faulting in a viscoelastic half-space, *Acta Seismologica Sinica*, **5**, 169-171, 1983.

Wong, T.-f., Development of stress-induced anisotropy and localized deformation in brittle rock, in *Plastic Behavior of Anisotropic Solids*, ed. J.P. Boehler, 321-337, 1985.

Evans, B., and T.-f. Wong, Shear localization in rocks induced by tectonic deformation, in *Mechanics of Geomaterials: Rocks, Concretes and Soils*, ed. Z.P. Bazant, 189-210, 1985.

Wong, T.-f. and J.B. Walsh, A theoretical analysis of tectonic stress relief during overcoring, *Int. J. Rock Mech. Min. Sci.*, **22**, 163-171, 1985.

Wong, T.-f. and R. Biegel, Effects of pressure on the micromechanics of faulting in San Marcos gabbro, *J. Structural Geol.*, **7**, 737-749, 1985.

- Wong, T.-f., Geometric probability approach to the characterization and analysis of microcracking in rocks, *Mechanics of Materials*, **4**, 261-276, 1985.
- Fredrich, J. and T.-f. Wong, Micromechanics of thermally induced cracking in three crustal rocks, *J. Geophys. Res.*, **91**, 12743-12764, 1986.
- Wong, T.-f., On the normal stress dependence of the shear fracture energy, in *Earthquake Source Mechanics*, A.G.U. Geophysical Monograph **37** (Maurice Ewing volume 6), 1-11, 1986.
- Wang, Y. and T.-f. Wong, Finite element analysis of two overcoring techniques for *in situ* stress measurements, *Int. J. Rock Mech. Min. Sci.*, **24**, 41-52, 1987.
- Zhang, J. and T.-f. Wong, Lithospheric flexure and deformation-induced gravity changes: Effect of elastic compressibility and gravitation on a multilayered, thick plate model, *Geophys. Jour.*, **92**, 73-88, 1988.
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- Fredrich, J., B. Evans and T.-f. Wong, Effects of grain size on brittle and semi-brittle strength: implications for micromechanical modeling of failure in compression, *J. Geophys. Res.*, **95**, 10907-10920, 1990.
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