

Derek Elsworth

Energy and Mineral Engineering and Geosciences, Pennsylvania State University
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Degrees

- 1982 - 1984: Ph.D., Engineering. University of California, Berkeley.
1979 - 1980: M.Sc. (Distinction) & DIC, Engineering Rock Mechanics. Imperial College, London.
1976 - 1979: B.Sc.(Hons.), Engineering Geology. Portsmouth Polytechnic. England.

History of Employment

- 1997 – Pres: G. Albert Shoemaker Chair (2021-Pres.), Distinguished Professor (2017-2021) Energy and Mineral Engineering (1997-Pres.), Geosciences (2013-Pres.), Civil and Environmental Engineering (2015-Pres.) Pennsylvania State University.
2000 – 2003 Associate Dean for Research, College of Earth & Mineral Sciences, Penn State.
1991 – 1997: Associate Professor. Mineral Engineering. Pennsylvania State University.
1985 – 1991: Assistant Professor. Mineral Engineering. Pennsylvania State University.
1988 – 1994: Research Assistant Professor then Adjunct Professor. Earth Sciences and Waterloo Center for Groundwater Research, University of Waterloo.
1984 – 1985: Visiting Assistant Professor. Department of Civil Engineering. University of Toronto.
1984: Research Associate. Earth Sciences Division. Lawrence Berkeley Laboratory.
1980 – 1982: Engineer. Komex Consultants, Ltd. and D. R. Piteau Associates, Calgary, Alberta.

Awards and Honors

- International Fellow, Chinese Academy of Engineering (2023)
ARMA Rock Mechanics Research Award (2023)
CAS President's International Fellowship Initiative – Distinguished Scientist (2023)
G. Albert Shoemaker Chair, Penn State (2021-)
Darcy Professor, Utrecht University (2016)
Member, US National Academy of Engineering (2015)
President, ARMA Foundation (2014 -); Member, ARMA Board of Directors (2014-2016)
Wilson Research Award (2012)
ARMA Basic Research Award (2011)
Chair of Fellows, American Rock Mechanics Association (2011-2018)
Fellow, Japan Society for the Promotion of Science (2010)
ARMA Case Studies Award (2010)
Fellow, American Rock Mechanics Association (2009)
Inaugural MTS Lecturer (2009)
Manuel Rocha Medal of the International Society for Rock Mechanics (1987)

Student Honorees

- ISRM Rocha Medal – Hide Yasuhara + Runner-ups (Josh Taron and Yi Fang)
ARMA Cook Medal – Hide Yasuhara, Josh Taron, Brandon Schwartz, Ziyang Li
ISRM Franklin Medal – Hide Yasuhara

Current Projects

Total of 11 with 1 as PI and 10 as co-PI for ~\$8M
NSF, China (1); MoST, China (2); MoE, China (1); DOE (3); ARC, Australia (2); NIOSH (1); ARPA-E (1).

Publications

<http://www.ems.psu.edu/~elsworth/publications/pubs.html>

Prior 5y: 164 Total: ~470 publications; GS: >26,000 citations; 86 h-index (04/2024)

In: *Science* (3), *Nature* (1), *Nat. Commun.* (3).... + *Highly Cited* (4)

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