

Jef Caers

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Professor of Geological Sciences



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Bio	Research & Scholarship	Teaching	Publications
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- [Professor, Geological Sciences](#)

Jef Caers received both an MSc ('93) in mining engineering / geophysics and a PhD ('97) in engineering from the Katholieke Universiteit Leuven, Belgium. Currently, he is Professor of Geological Sciences (since 2015) and previously Professor of Energy Resources Engineering at Stanford University, California, USA. He is also director of the Stanford Center for Earth Resources Forecasting, an industrial affiliates program in decision making under uncertainty with ~20 partners from the Energy Industry. Dr. Caers' research interests are quantifying uncertainty and risk in the exploration and exploitation of Earth Resources. Jef Caers has published in a diverse range of journals covering Mathematics, Statistics, Geological Sciences, Geophysics, Engineering and Computer Science. He was awarded the Vistelius award by the IAMG in 2001, was Editor-in-Chief of Computers and Geosciences (2010-2015). Dr. Caers has received several best paper awards and written four books entitled "Petroleum Geostatistics" (SPE, 2005) "Modeling Uncertainty in the Earth Sciences" (Wiley-Blackwell, 2011), "Multiple-point Geostatistics: stochastic modeling with training images" (Wiley-Blackwell, 2015) and "Quantifying Uncertainty in Subsurface Systems (Wiley-Blackwell, 2018). Dr. Caers was awarded the 2014 Krumbein Medal of the IAMG for his career achievement.

Administrative Appointments

- Post-doctoral researcher, Geological & Environmental Sciences, Stanford University (1997 - 1999)
- Director of Earth Resources Forecasting, Stanford University (2018 - Present)
- Post-doctoral researcher, Civil Engineering, University of Calgary, Canada (1997 - 1997)
- Assistant Professor of Petroleum Engineering, Stanford University (1999 - 2005)
- Director, Stanford Center for Reservoir Forecasting, Stanford University (2000 - Present)
- Associate Professor of Energy Resources Engineering, Stanford University (2006 - 2013)
- Professor of Energy Resources Engineering, Stanford University (2014 - 2015)
- Professor of Geological Sciences, Stanford University (2015 - Present)

Honors and Awards

- Research Fellow, National Science Foundation of Belgium (1994 - 1997)
- Post-doctoral Fellow, National Science Foundation of Belgium (1997 - 1999)
- Research Fellow, NATO (1997 - 1998)

- Fellow, B.A.E.F. (Belgian American Education Foundation) (1997)
- Vistelius Research Award, International Association for Mathematical Geology (2001)
- Frederick E. Terman Fellowship award, Stanford University (2003)
- Outstanding Technical Editor Award, SPE Journal (2005)
- Top 10 Oral presentations, AAPG Annual Convention, Long Beach, 2007 (2007)
- 1st prize software plugin, Schumberger Information Services Global Forum (2010)
- Krumbein Medal, International Association for Mathematical Geosciences (2014)

University Service and Professional Activities

- Editor-in-Chief, Computers & Geosciences (2011 - 2016)

Education

- Ph.D., Katholieke Universiteit Leuven, Belgium, Engineering (1997)
- M.S., Katholieke Universiteit Leuven, Belgium, Mining Engineering & Geophysics (1993)

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