

## **JENS T. BIRKHOLZER**

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Researcher ID: C-6783-2011

### **EDUCATION**

1982 - 1985 University of Technology, Aachen. B.Sc. in Civil Engineering, 1985.  
1985 - 1988 University of Technology, Aachen. M.Sc. in Water Resources, Hydraulic Engineering, Soil and Rock Mechanics, 1988.  
1989 - 1994 University of Technology, Aachen. Ph.D. in Subsurface Hydrology, 1994.

### **RESEARCH INTERESTS**

Subsurface hydrology with emphasis on fluid, gas, solute and heat transport in complex subsurface systems. Current work includes:

- Hydrological and geological evaluations of deep radionuclide waste disposal sites
- Risk assessment of geologic repositories for radioactive waste
- Temperature-driven flow and transport processes in geologic repositories for radioactive waste (experiments and predictive modeling)
- Assessment of CO<sub>2</sub> sequestration in deep geological formations (leakage pathways, impact on groundwater, geomechanical changes, basin-scale evaluations)
- Groundwater remediation

### **CURRENT POSITION AND PROFESSIONAL EXPERIENCE**

Since 2015 Division Director, Energy Geosciences Division, Lawrence Berkeley National Laboratory (LBNL)  
Since 2015 Senior Scientist, LBNL  
2014 - 2015 Deputy Director, Earth Sciences Division, LBNL  
Since 2008 Program Lead, Nuclear Energy and Waste, Earth Sciences Division, LBNL  
2001 - 2015 Staff Scientist, Earth Sciences Division, LBNL  
1999 - 2001 Chief Engineer and Project Manager, Construction of the New International Airport in Dusseldorf, HOCHTIEF AG, Germany  
1994 - 1998 Geological Scientist, Earth Sciences Division, LBNL  
1989 - 1994 Research Associate, Institute of Hydraulic Engineering and Water Resources Management (IWW), University of Technology, Aachen, Germany

### **HONORS AND AWARDS:**

2016 Geological Society of America (GSA) Fellow  
2012 Director's Award for Exceptional Achievement (TOUGH codes), by LBNL  
2015, 2007, 1997 Outstanding Performance Award, by LBNL  
1995 - 1996 Postdoctoral fellowship granted by the Humboldt-Stiftung  
1995 Friedrich-Wilhelm Award for Summa Cum Laude Ph.D. Thesis  
1995 Borchers Award for Summa Cum Laude Ph.D. Thesis  
1994 - 1995 Postdoctoral fellowship granted by the DAAD  
1989 Research-fellowship granted by the DAAD  
1989 Springorum Award for Summa Cum Laude M.Sc.  
1989 Hünnebeck Award for best Master Thesis  
1986 - 1989 Studienstiftung des Deutschen Volkes, Scholarship for Excellent Students

### **PUBLICATIONS**

Dr. Birkholzer has over 300 scientific publications, more than 100 of which are in peer-reviewed journals, in addition to numerous research reports.

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