

VICTOR FRANCISCUS BENSE

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APPOINTMENTS

2006 – Current	Lecturer in Hydrogeology - University of East Anglia, UK
2004 – 2006	Post-doc Researcher - Indiana University, USA.
1999 – 2004	PhD-student - Vrije Universiteit Amsterdam, Netherlands: May
1998 – 1999	Research Associate - USDA Hydrology Laboratory, USA:

EDUCATION

1999 – 2004	PhD.	Hydrogeology/Structural Geology, Vrije Universiteit, Amsterdam
1993 – 1998	MSc.	Hydrogeology/Meteorology/Structural Geology, Vrije Universiteit, Amsterdam

PUBLICATIONS (including in press and invited)

- (13.) **Bense, V.F.**, S.E. Loveless, and M.A. Person, Fault Hydrogeology, in preparation for *Reviews of Geophysics*, invited paper.
- (12.) Ferguson, G., and **V.F. Bense**, Considering lateral heat transport in the estimation of groundwater seepage from streambed temperatures, *Water Resources Research*, accepted with revisions.
11. **Bense, V.F.**, M.A. Person, K. Chaudhary, Y. You, N. Cremer, and S.Simon, Thermal anomalies as indicator of preferential flow along faults in an unconsolidated sedimentary aquifer system, *Geophysical Research Letters*, doi:10.1029/2008GL036017, 2008.
10. **Bense, V.F.**, and M.A. Person, Transient hydrodynamics in inter-cratonic sedimentary basins during glacial cycles, *Journal of Geophysical Research*, doi:10.1029/2007JF000969, 113, F04005, 2008.
9. **Bense, V.F.**, and H. Beltrami, The impact of horizontal groundwater flow and localized deforestation on the development of shallow temperature anomalies, *Journal of Geophysical Research*, 112, F04015, doi:10.1029/2006JF000703, 2007.
8. Person, M.A., J. McIntosh, **V.F. Bense** and Vicki Remenda, Pleistocene Hydrology of North America: The role of icesheets in reorganizing groundwater flow systems, *Reviews of Geophysics*, 45, RG3007, doi:10.1029/2006RG000206, 2007.
7. **Bense, V.F.**, and M.A. Person, Fault zones as conduit-barrier systems to fluid flow in siliciclastic sedimentary aquifers, *Water Resources Research*, 42, W05421, doi:10.1029/2005WR004480, 2006.
6. **Bense, V.F.** and R.T. Van Balen, The impact of clay-smearing and fault relay on groundwater flow patterns in the Lower Rhine Embayment, *Basin Research*, 16, 397-411, 2004.
5. **Bense, V.F.** and H. Kooi, Temporal and spatial variations of shallow subsurface temperature as a record of lateral variations in groundwater flow, *Journal of Geophysical Research*, 109, B04103, doi:10.1029/2003JB002782, 2004.
4. **Bense, V.F.**, E.H. Van den Berg, and R.T. Van Balen, Deformation mechanisms and hydraulic properties of fault zones in unconsolidated sediments; the Roer Valley Rift System, the Netherlands. *Hydrogeology Journal*, 11, 319-332, doi:10.1007/s10040-003-0262-8, 2003.

3. **Bense, V.F.**, R.T. Van Balen, and J.J. De Vries, The impact of faults on the hydrogeological conditions in the Roer Valley Rift System: an overview, *Netherlands Journal of Geosciences*, 82(1), 41-53, 2003b.
2. Van den Berg, E.H., **V.F. Bense**, and W. Schlager, Assessing textural variation in laminated sands using digital image analysis of thin sections, *Journal of Sedimentary Research*, 73 (1), 133-143, 2003.
1. **Bense, V.F.** and R.T. Van Balen, Hydrogeological aspects of fault zones on various scales in the Roer Valley Rift System, *Journal of Geochemical Exploration*, 78-79, 317-320, 2003.

FUNDING

2006 – 2008 PI on NSF-EAR-0609809, *Tracing preferential fluid flow along fault in the Lower Rhine Embayment*. Co-PI's M.A. Person (Indiana University), L.N. Plummer (U.S. Geological Survey), C.Gable (Los Alamos National Laboratory), P.Sauer (Indiana University): ~\$356,000,-

COURSES (CO-)TAUGHT at the University of East Anglia

ENV(F)-2A3Y: Hydrology & Hydrogeology (upper-level undergraduate and Master level)
 ENV-1A70: Earth Surface Processes (undergraduate)
 ENV-3C09: Introduction to Geological mapping (upper-level undergraduate field-course)

UNIVERSITY SERVICE

Plagiarism Officer for the School of Environmental Sciences
 Undergraduate Affairs Committee (member)

EDITORIAL ROLES

2008 - Current Associate Editor for *Hydrogeology Journal*
 Current Reviewer for journals such as *Geology*, *Journal of Geophysical Research*,
 Geological Society of America Bulletin, *Hydrological Processes*, *Vadoze Zone Journal*.

RECENT INVITED TALKS

EGU General Assembly Vienna, Austria (2x), April 2008, University of Glasgow, UK, 2008, GSA Annual Meeting, Denver, Colorado, October 2007, Durham University, UK, 2007, USGS, Reston, VA, 2006, Los Alamos National Lab, NM, 2006

OTHER ACTIVITIES

Geological Society of America Annual Meeting 2008, Houston, Session T166. *Fault Seals or Conduits? Insights from Hydrologic and Petroleum Systems*, convened by Victor Bense and Mark Person

Geological Society of America Annual Meeting 2006, Philadelphia, Session T80. *Impact of Past Glaciations on Present-day Subsurface Water Resources: Geochemical, Hydrogeological and Modeling Studies*, convened by Jennifer C. McIntosh, Victor Bense.

Geological Society of America Annual Meeting 2005, Salt Lake City, Session T13. *Fault Zone Controls on Fluid Movement, Earth Resources and Processes: Perspectives from Field, Laboratory, and Modeling Studies*, convened by Victor F. Bense, Jonathan Caine.