

# Julia Schneider

Jackson School of Geosciences  
University of Texas at Austin  
1 University Station C1140  
GEO 4.162B  
Austin, TX 78712-0254  
[jshneid@mail.utexas.edu](mailto:jshneid@mail.utexas.edu)

Institute for Geophysics  
University of Texas at Austin  
J.J. Pickle Research Campus  
10100 Burnet Road (R2200)  
ROC-196, Rm. 2.116L  
Austin, TX 78758-4445  
Phone: (512) 475-9533  
Fax: (512) 471-8844

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## EDUCATION

Aug. 2007-  
present

University of Texas at Austin, Austin, TX

- Jackson School of Geosciences
- Ph.D. expected in Spring 2011

Aug. 2006-  
Aug. 2007

Pennsylvania State University, University Park, PA

- Department of Geosciences
- Ph.D. student, GPA: 3.84

Aug. 2006  
Dec. 2004

University of Bremen, Bremen, Germany

- Department of Geosciences
- **Diploma (MS)** in Geosciences, GPA = 3.8
- **Bachelor of Science (BS)** in Geosciences, GPA = 3.3

## EXPERIENCE

### *Research*

Oct. 2006

2<sup>nd</sup> post cruise meeting of IODP Expedition 308, Granada, Spain

Nov. 2005

1<sup>st</sup> post cruise meeting of IODP Expedition 308, College Station, TX

June – July 2005

Shipboard sedimentologist on IODP Expedition 308, Gulf of Mexico

- Described and sampled sediment cores
- Measured magnetic susceptibility
- Took color scans and core photos

Sept. – Oct. 2004

Student assistant on Expedition ARK XX/3, Arctic Ocean (Svalbard)

- Participated in conjunction with my Bachelor Thesis
- Helped deploying and recovering multi corer, piston corer
- Multi Sensor Core Logger (MSCL) measurements
- Sampled sediment cores

Aug. – Sept. 2002

Student assistant on Expedition M54/2, Pacific Ocean (Costa Rica)

- Helped deploying, recovering, and repairing heat flow probe
- Observed measurements
- Loaded and processed temperature data

### ***Practical Training***

- August 19<sup>th</sup>-29<sup>th</sup> 2008 Participation in Marie Curie Summer School on Aqueous and Porous Materials, Trest, Czech Republic
- July 14<sup>th</sup>-16<sup>th</sup> 2008 Training course in Basin Modeling Software TEMIS 2D/3D by Beicip-Franlab, Houston
- July 18<sup>th</sup>-19<sup>th</sup> 2007 Soil Mechanics Workshop at Shell Oil Company, Houston, BTC
- May – August 2007 Summer Internship with Shell Oil Company in Houston, BTC (work group: Fundamental Rock Properties)
- Integrated and interpreted regional pore pressure and well log data to study reservoir connectivity in a complex compressive system
  - Compared pore pressure tools (including uncertainties, precision, accuracy)
  - Calculated fluid gradients, salinities, water/brine saturations, pore pressure potentials, density correction for pay sands
  - Regional temperature model
- Aug. – Sept. 2003 Internship at the geophysical Company *GeoPro*, Hamburg, Germany (mandatory practical training for studies at University of Bremen)
- 2001 - 2006 Student assistant at the University of Bremen in several research groups:
- Geophysics
  - Sediment Transport Modeling
  - Crystallography

### **SKILLS**

#### ***Computer***

- Operating systems: Windows, Unix (limited)
- Microsoft: Word, Excel, PowerPoint
- Graphic applications: Adobe Illustrator, Corel Draw
- Numerical Modeling: FLAC, COMSOL (both limited)
- Basin Modeling: TEMIS 2D/3D
- Seismic: Vista, ProMAX, and SeisWorks
- Others: GeoLog, GMT, Matlab, Grapher, SigmaPlot

#### ***Languages***

English, German, French (high school knowledge), Latin (Latinum)

### **FELLOWSHIPS / AWARDS**

- Spring 2009 Hess Fellowship
- Fall 2008 Ewing/Worzel Fellowship from UT Institute for Geophysics
- Fall 2008 Chevron Excellence Award
- Summer 2008 Ewing/Worzel Fellowship from UT Institute for Geophysics
- Fall 2007 Chevron Excellence Award
- 2007 ConocoPhillips Distinguished GeoFluids Fellowship
- 2007 Third Prize Award for oral presentation by a Ph.D. Student (Pre-Comprehensive Exam) at 39<sup>th</sup> Annual Graduate Student Colloquium, PSU, University Park, PA, April 16-20, 2007

## PUBLICATIONS

**Schneider, J.**, Flemings, P.B., Dugan, B., Long, H., and Germaine, J.T. (in review). Overpressure and compaction near the seafloor of Brazos-Trinity Basin IV, Northwest Deepwater Gulf of Mexico, *Journal of Geophysical Research*.

**Schneider, J.**, Flemings, P.B., Long, H., Dugan, B., Germaine, J.T., and Saffer, D.M. (submitted). Data Report: Porosity – permeability behavior of shallow mudstones in the Ursa Basin, IODP Expedition 308 Sites U1322 and U1324, Northern Gulf of Mexico. In Flemings, P.B., Behrmann, J.H., John, C.M., and the Expedition 308 Scientists. *Proc. IODP, Sci. Results*, 308.

## PRESENTATIONS/POSTERS AT PROFESSIONAL MEETINGS

**Schneider, J.**, Flemings, P.B., Long, H., Dugan, B., Germaine, J.T., Saffer, D.M., and IODP Expedition 308 Shipboard Scientific Party (2008). Pore pressure prediction near the seafloor in the Brazos-Trinity Basin, Gulf of Mexico. International Conference “Overpressure 2008: Present and Future Challenges – A Research Conference, Durham, England, April 6-9, 2008.

**Schneider, J.**, Moerz, T., Bartetzko, A., Iturrino, G.J., Edeskaer, T.M., Flemings, P.B., Behrmann, J.H., John, C.M., and IODP Expedition 308 Shipboard Scientific Party (2005). Examples of mass wasting and hemipelagic sedimentation of Brazos-Trinity Basin #4 and Ursa Basin. Poster Presentation at the American Geophysical Union (AGU) Fall Meeting, San Francisco, CA, December 5-9, 2005.

**Schneider, J.**, Moerz, T., Bartetzko, A., Iturrino, G.J., Edeskaer, T.M., Flemings, P.B., Behrmann, J.H., John, C.M., and IODP Expedition 308 Shipboard Scientific Party (2005). Examples of mass wasting and hemipelagic sedimentation of Brazos-Trinity Basin IV and Ursa Basin, Northern Gulf of Mexico, IODP Expedition 308. Poster Presentation at the German IODP Meeting, Greifswald, Germany, March 27-29, 2005.

## PRESENTATIONS/POSTERS AT OTHER MEETINGS

Sawyer, D.E., **Schneider, J.**, Long, H., Flemings, P.B., Dugan, B., Germaine, J.T., Jacoby, R., Saffer, D.M., and IODP Expedition 308 Shipboard Scientific Party (2007). Mudstone lithology and permeability, Gulf of Mexico. Talk presented at GeoFluids III Meeting 2007, Austin, TX, October 16, 2007.

**Schneider, J.**, Flemings, P.B., Long, H., Jacoby, R., Dugan, B., Germaine, J.T., and IODP Expedition 308 Shipboard Scientific Party (2007). Pressure Prediction in the Brazos-Trinity Basin, Gulf of Mexico. Talk presented at GeoFluids III Meeting 2007, Austin, TX, October 16, 2007.

**Schneider, J.**, Flemings, P.B., Long, H., Dugan, B., and Germaine, J.T. (2007). Consolidation, pore pressure, and fluid flow in mudstones of Brazos-Trinity Basin IV, northern Gulf of Mexico.

Talk presented at 39<sup>th</sup> Annual Graduate Student Colloquium, The Penn State University, University Park, PA, April 16-20, 2007.

**Schneider, J.**, Flemings, P.B., Hucks, A., Long, H., Sawyer, D.E., Skarbek, R., Saffer, D.M., Dugan, B., Germaine, J.T., and IODP Expedition 308 Shipboard Scientific Party (2006). Mudstone lithology and permeability. Talk presented at GeoFluids III Meeting 2006, Santa Cruz, CA, October 30-31, 2006.

**Schneider, J.**, Flemings, P., Hucks, A., Long, H., Sawyer, D., Skarbek, R., Saffer, D., Dugan, B., Germaine, J., and IODP Expedition 308 Shipboard Scientific Party (2006). Mudstone lithology and permeability. Poster presented at GeoFluids III Meeting 2006, Santa Cruz, CA, October 30-31, 2006.

**Schneider, J.**, Flemings, P.B., Hucks, A., Long, H., Sawyer, D.E., Skarbek, R., Saffer, D.M., Dugan, B., Germaine, J.T., and IODP Expedition 308 Shipboard Scientific Party (2006). Pore pressure prediction in the Brazos-Trinity Basin. Talk presented at GeoFluids III Meeting 2006, Santa Cruz, CA, October 30-31, 2006.

**Schneider, J.**, Flemings, P., Hucks, A., Long, H., Sawyer, D., Skarbek, R., Saffer, D., Dugan, B., Germaine, J., and IODP Expedition 308 Shipboard Scientific Party (2006). Pore pressure prediction in the Brazos-Trinity Basin. Poster presented at GeoFluids III Meeting 2006, Santa Cruz, CA, October 30-31, 2006.

**Schneider, J.**, Flemings, P., Long, H., Saffer, D., Sawyer, D., Jacoby, R., Dugan, B., Germaine, J., and IODP Expedition 308 Shipboard Scientific Party (2006). Permeability and grain size in URSA mudstones. Poster presented at 2<sup>nd</sup> Post Cruise Meeting of IODP Expedition 308, Granada, Spain, October 7-8, 2006.

**Schneider, J.**, Flemings, P., Long, H., Saffer, D., Sawyer, D., Jacoby, R., Dugan, B., Germaine, J., and IODP Expedition 308 Shipboard Scientific Party (2006). Compressibility and sorting of mudstones at Brazos-Trinity Basin IV. Poster presented at 2<sup>nd</sup> Post Cruise Meeting of IODP Expedition 308, Granada, Spain, October 7-8, 2006.

**Schneider, J.** and Huhn, K. (2006). Numerische Simulation von Fluidbewegungen im obersten Sedimentstockwerk in Abhaengigkeit von physikalischen Sedimenteigenschaften. Diploma Defense, August 2006.

**Schneider, J.** and Stein, R. (2004). Sedimentationsprozesse am Kontinentalrand nördlich von Spitzbergen: Rekonstruktion nach Logging-Daten. Bachelor Defense, November 2004.

## THESES

**Schneider, J.** (2006). Numerische Simulation von Fluidbewegungen im obersten Sedimentstockwerk in Abhaengigkeit von physikalischen Sedimenteigenschaften. Diplomarbeit, University of Bremen.

**Schneider, J.** (2004). Sedimentationsprozesse am Kontinentalrand nördlich von Spitzbergen: Rekonstruktion nach Logging-Daten. Bachelorarbeit, University of Bremen.