

## CURRICULUM VITAE

### STUART V. SCHMITT

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#### PROFESSIONAL EMPLOYMENT

February 2006–present                      Technician, PFS Corporation Laboratory Division, Madison, Wisc.

#### EDUCATION

M.S., Geophysics, University of Wisconsin-Madison, August 2005

Thesis title: *A geodetic study of the 22 January 2003 Tecomán, Colima, Mexico earthquake.*

Primary thesis advisor: Dr. Charles DeMets

B.A., Physics with minor in history, Lawrence University, June 2001,

Thesis title: *Smectic-I to smectic-F surface freezing of freely-suspended liquid crystal films.*

Primary thesis advisor: Dr. Jeffrey Collett

#### RESEARCH INTERESTS

Sources of transient crustal deformation	Geological applications of finite element models
Inverse problems	Tectonic history from seafloor magnetic anomalies
Geological applications of continuum mechanics	Stress transfer from earthquakes and transient deformation
Fault mechanics	Design and fabrication of instrumentation
Rock friction	
Subduction zone dynamics	

#### RESEARCH EXPERIENCE

Graduate Research Assistant, UW-Madison Department of Geology and Geophysics, advised by Dr. Charles DeMets, September 2002-August 2005

Visiting Scientist, USGS EROS Data Center, advised by Dr. Timothy Masterlark, June 2002-August 2002.

Undergraduate Research Assistant, Lawrence University, advised by Dr. Jeffrey Collett (Summer 2000) and Dr. John Brandenberger (Summer 1999).

#### TEACHING EXPERIENCE

Teaching Assistant, UW-Madison Department of Geology and Geophysics

*Introduction to applied geophysics*—senior/graduate level course in shallow geophysics methods. Topics include gravity, magnetics, seismic surveys, resistivity, transient electromagnetics, and ground-penetrating radar. Teaching responsibilities included grading student work, instruction of seismic data processing, and assisting students with questions.

*Field methods in applied geophysics*—senior/graduate field course to accompany “Introduction to Applied Geophysics.” Teaching responsibilities involved developing field data analysis assignments, grading student work, and occasional instruction of field data analysis techniques.

*The age of dinosaurs*—upper-level Internet course for non-majors about vertebrate paleontology of the Mesozoic. Teaching responsibilities included writing quiz questions, participation in class bulletin board, and grading student writing assignments.

## FIELD EXPERIENCE

Participated in Jalisco GPS network occupation in January 2003 and February 2004.

Cruise participation on *RV Nathaniel B. Palmer* cruises 05-01 and 05-07 for J. Stock's and S. Cande's Antarctic tectonic history project. Assisted with shipboard collection of magnetometer, gravimeter, multi-beam sonar, and sub-bottom profiler data.

## AWARDS

*Weeks Research Assistant*, UW-Madison Department of Geology and Geophysics, 2002-2003

*Freshman Studies Writing Award*, Lawrence University, 1998.

## ACADEMIC SERVICE

*Career coordinator*, UW-Madison Department of Geology and Geophysics, 2003-2005. Coordinated on-campus recruiting activities of petroleum companies.

*Staff editor*—“*The Laurentian*” student newspaper, Lawrence University, 1997-2001.

*Residence Life Advisor*, Lawrence University, 1998-2001.

*Writing Tutor*, Lawrence University, 1998-2001.

*Elected member of student government*, Lawrence University, 1999.

## PROFESSIONAL AFFILIATIONS

American Geophysical Union (2002-present),

Society of Exploration Geophysics (2002-2004)

## MANUSCRIPT IN PREPARATION

**Schmitt, S. V.**, C. DeMets, J. Stock, O. Sanchez, B. Marquez-Azua, G. Reyes, A geodetic study of the 22 January 2003 Tecomán, Colima, Mexico earthquake, submitted to *Geophys. J. Int.*

## ABSTRACTS AND PRESENTATIONS

**Schmitt, S. V.**, C. DeMets, J. Stock, O. Sánchez, T. Masterlark, B. Marquez-Azúa, Toward an Improved Understanding of Subduction Zone Mechanics: Finite Element Modeling Results From the Jalisco GPS Project, 1993-2004 (oral presentation), *2004 AGU Fall Meeting*.

**Schmitt, S. V.**, C. DeMets, J. Stock, O. Sanchez, B. Marquez-Azúa, G. Reyes, A geodetic study of the 22 January 2003 Tecomán, Colima, Mexico earthquake (poster presentation), *2005 AGU Fall Meeting*.