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6 February 2006

Prof. Dr. Markus Rothacher
GeoForschungsZentrum Potsdam (GFZ)
Dept.1: Geodesy & Remote Sensing
Telegrafenberg A17
D-14473 Potsdam / Germany

Dear Markus,

I would be pleased to be considered as a candidate for the Global Geodetic Observing System (GGOS) Science Panel.

I am a geophysicist interested in multidisciplinary studies of global earth processes, focusing on plate motions, plate boundaries, and plate interiors. My studies integrate techniques including seismology, space-based geodesy, marine geophysics, satellite gravity, topography, geology, and thermo-mechanical modeling. I have served as Scientific Director of UNAVCO and was one of the group that worked to start the Earthscope program.

My specific interests relative to GGOS include plate motions, plate boundary zone deformation processes and earthquakes, intraplate deformation processes and earthquakes, and tsunami warning. I would be happy to contribute to the development of GGOS.

Sincerely,

Seth Stein
Professor

Seth A. Stein

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BORN: July 12, 1953; Middletown, Connecticut

EDUCATION:

B.S. (Earth and Planetary Sciences), Massachusetts Institute of Technology, 1975
M.S. (Geophysics), California Institute of Technology, 1977
Ph.D. (Geophysics), California Institute of Technology, 1978

PROFESSIONAL EXPERIENCE:

Post-Doctoral Research Affi liate in Geophysics, Stanford University, 1978-1979
Assistant Professor of Geological Sciences, Northwestern University, 1979-1983
Associate Professor of Geological Sciences, Northwestern University, 1983-1987
Professor of Geological Sciences, Northwestern University, 1987-
Visiting Professor, University of Utrecht (Netherlands), 1988
Chairman, Department of Geological Sciences, Northwestern University, 1989-1992
Visiting Senior Scientist, NASA Goddard Space Flight Center, 1993-1994
Scientifi c Director, UNAVCO, 1998-2000

RESEARCH INTERESTS: Plate tectonics, seismology, and space geodesy

HONORS:

Presidential Scholar, 1971
National Merit Scholar, 1971
Phi Beta Kappa, 1975
Fannie and John Hertz Foundation Fellow, 1975-1978
Northwestern Undergraduate Student Government Teaching Honor Roll, 1984, 1987
Faculty coauthor, paper awarded Outstanding Student Paper Award, Geodesy section, winter 1986 AGU meeting
Faculty coauthor, paper awarded Outstanding Student Paper Award, Tectonophysics section, spring 1987 AGU meeting
Faculty coauthor, paper awarded Outstanding Student Paper Award, Geodesy section, spring 1995 AGU meeting
Faculty coauthor, paper awarded Outstanding Student Paper Award, Geodesy section, spring 1997 AGU meeting
James B. Macelwane Medal, American Geophysical Union, 1989
Fellow, American Geophysical Union, 1989
Fellow, Geological Society of America, 1999
Institute for Scientifi c Information Highly Cited Researchers list, 2002

Distinguished Lecturer, Incorporated Research Institutions
for Seismology/Seismological Society of America, 2005-6

PROFESSIONAL ACTIVITIES:

Member, Ocean Margin Drilling Caribbean Regional Synthesis Group, 1981-1982
Seismology Program Chair, AGU Fall Annual meeting, 1984-1985
Incorporated Research Institutions for Seismology, Northwestern University representative, 1984-1990; member, Executive Committee, 1986-1988; Chair, nominations committee, 1990; Education and Outreach Committee, 2004-
UNAVCO, Northwestern University representative, 1985-; Scientifi c Director, 1998-2000
UNESCO Lecturer, International Institute of Seismology and Earthquake Engineering, Japan, 1985
Associate Editor, Journal of Geophysical Research, 1986
Associate Editor, Geophysical Research Letters, 1986
Member, NASA GPS Geodetic Systems Working Group, 1986-1988
Editor, Journal of Geophysical Research, 1986-1989
Member, NSF Proposal Review Panel: Global Positioning System, 1988
Sub-panel chair, NSF workshop: Continental dynamics research in the 1990s, 1991
Seismology section representative, Macelwane Medal committee, American Geophysical Union, 1990-1992
Member, NASA Dynamics of the Solid Earth program panel, 1991
Organizing committee member and session chairman, AGU Chapman conference on time dependent positioning and monitoring of crustal motion, 1991
Invitee, National Academy of Sciences Symposium on Frontiers of Science, 1992
Chair, Fellows nomination committee, Seismology Section, American Geophysical Union, 1992
Chair, Bucher Medal committee, American Geophysical Union, 1996-1998
Member, NASA Shuttle Radar Topographic Mission Science Team, 1999-2002
Organizing committee member, UNAVCO conference on volcanic geodesy, 1999
Member, Steering Committee, NSF Plate Boundary Observatory Initiative, 1999-2000
Member, University Relations Committee, University Corporation for Atmospheric Research, 2000
Chair, Excellence in Geophysical Education award committee, American Geophysical Union, 2000-2002
Member, governing board, WEGENER European space geodesy consortium, 2000-
Organizing committee member, NSF MARGINS Theoretical Institute on the Seismogenic Zone, 2003
Member, NASA Solid Earth program panel, 2002
Member, External Review Committee, Purdue University Department of Earth and Atmospheric Sciences, 2003
Member, External Advisory Board, Netherlands Research Centre for Integrated Solid Earth Science, 2003-
Organizing committee member, NATO Advanced Research Workshop on the Adria Microplate, 2003
Member, Fellows nomination committee, Geodesy Section, American Geophysical Union, 2004-
Member, NSF Earthscope Facility review panel, 2005
Reviewer, NAS Committee on Disaster Research in the Social Sciences report, 2005
Member, External Review Committee, University of California at Riverside, Department of Geological Sciences, 2006

PUBLICATIONS:

BOOKS:

Pringle, M., W. Sager, W. Sliter, and S. Stein (eds), *The Mesozoic Pacific,* American Geophysical Union, 1993.

Stein, S., and J. Freymueller, (eds), *Plate Boundary Zones,* American Geophysical Union, 2002.

Stein, S., and M. Wysession, *Introduction to Seismology, Earthquakes, and Earth Structure,* Blackwell Publishing, 2003. (Figures, homework solutions, and errata available at http://epscx.wustl.edu/seismology/book)

Pinter, N., G. Grenerczy, J. Weber, S. Stein, and D. Medak (eds), *The Adria Microplate: GPS Geodesy, Tectonics and Hazards,* Nato Science Series, Springer, 2005.

Stein, S., and S. Mazzotti, (eds), *Continental Intraplate Earthquakes: Science, Hazard, and Policy Issues,* Geological Society of America Monograph, in prep, 2005.

Stein, S., M. Wysession, and J. DeLaughter, *Exploring our Evolving Planet: an Introduction to Geophysics,* in prep, 2005.

JOURNAL ARTICLES (many recent ones available on WWW homepage):

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