



AWSFL008-DS3

**NSF Award Abstract**  
**- #0001871**

**Laboratory Frictional Studies of Fault Gouge: A  
Test of Hypotheses for Controls  
on the Updip Limit of the Seismogenic Zone  
Along Subduction Thrusts**

**NSF Org** OCE

**Latest Amendment Date** August 21, 2000

**Award Number** 0001871

**Award Instrument** Standard Grant

**Program Manager** Bilal U. Haq  
OCE DIVISION OF OCEAN  
SCIENCES  
GEO DIRECTORATE FOR  
GEOSCIENCES

**Start Date** August 15, 2000

**Expires** September 30, 2001 (Estimated)

**Expected Total Amount** \$200000 (Estimated)

**Investigator** Chris J. Marone (Principal  
Investigator current)

**Sponsor** MIT  
77 Massachusetts Avenue  
Cambridge, MA 021394307  
617/253-1000

**NSF Program** 1620 MARINE GEOLOGY AND  
GEOPHYSICS

**Field Application** 0204000 Oceanography

**Program Reference Code 0000,OTHR,**

## **Abstract**

The PI proposes to develop a structural model of the subduction thrust from the seaward edge of the subduction zone through the seismogenic zone with the geological conditions at the Nankai Subduction Zone as a constraint. The objective is to understand the progressive fabric development across the aseismic to seismic transition, to provide information that will help interpret geophysical images and guide experimental lab studies and assist in the interpreting of the drill hole data through the seismogenic zone. The PI will use ODP holes at the frontal part of the Nankai subduction zone and uplifted equivalent complexes on land.

---

You may also retrieve a [text version](#) of this abstract.

---

Please report errors in award information by writing to: [award-abstracts-info@nsf.gov](mailto:award-abstracts-info@nsf.gov).

---

**Please use the browser back button to return to the previous screen.**