

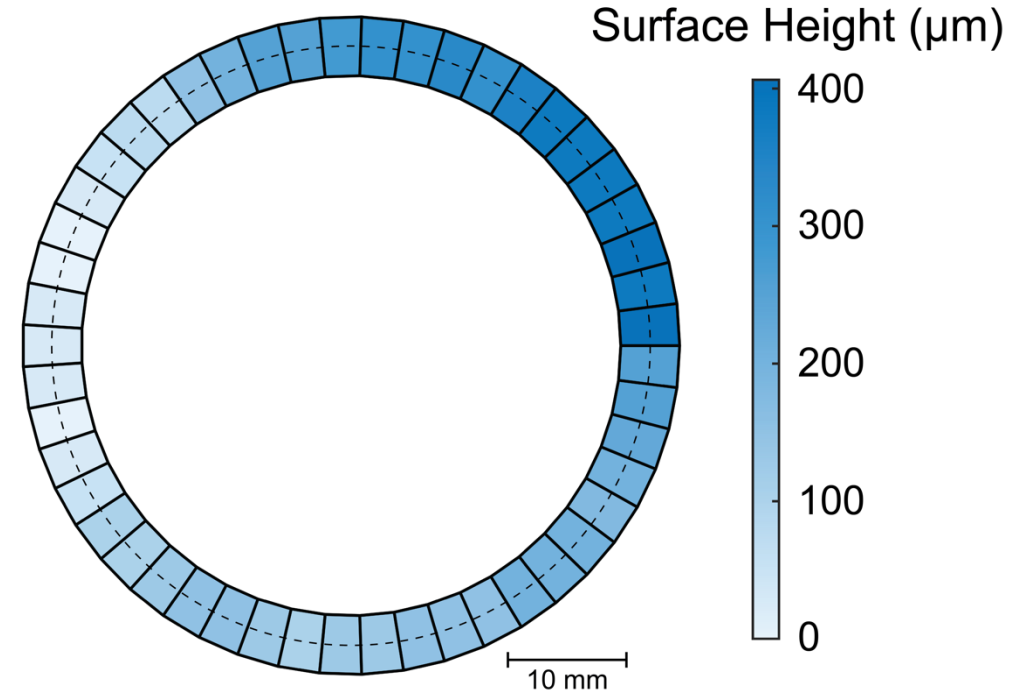
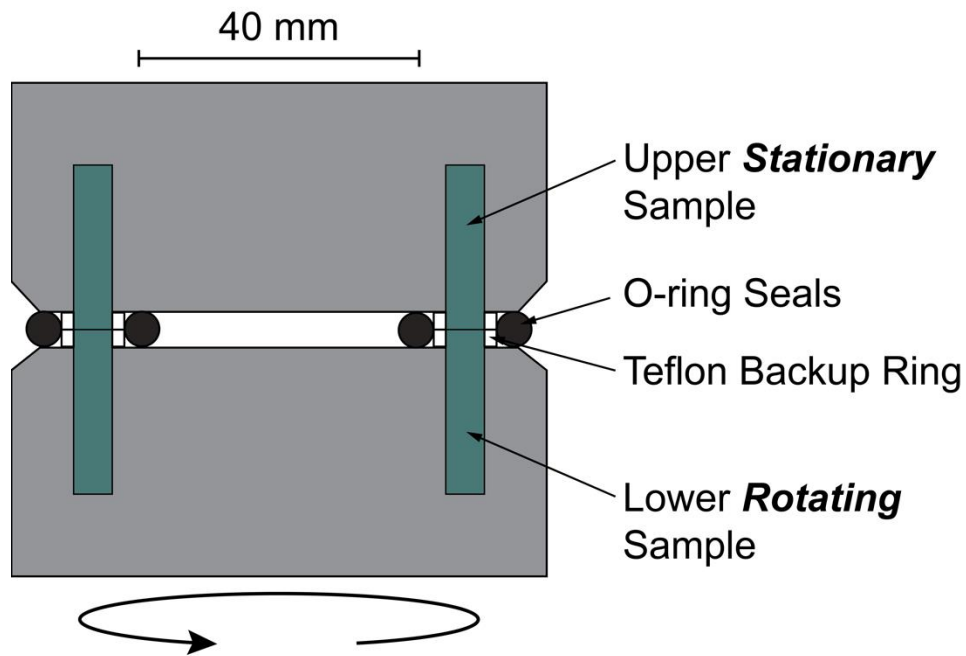
# Poster **190**: Assessing the role of roughness on the frictional strength of faults and weakening by thermal pressurization

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**SCEC CRM Workshop**  
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Hilton Palm Springs, California

# Thermal Pressurization is Suppressed on Rough Faults



- Experiments at 20 MPa  $\sigma'$
- 25 or 0 MPa  $p_p$
- Rough and flat sliding surfaces
- V-steps from 1  $\mu\text{m/s}$  to 6-10 mm/s

**Mated at beginning of sliding**



**Pore space opens during sliding**





# Thermal Pressurization is Suppressed on Rough Faults

