

## “Nanotribology: High Temperature Lubricating Behavior of Some Solid Lubricants”

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*This is the work which I have done during my postdoctorate in Southern Illinois University Carbondale, USA.*

Nanotribology is one of the most emerging research area in the nanoscience which deals the friction, wear and lubrication properties of nanomaterials. High temperatures (HT) are the harshest conditions in tribology and are encountered in applications such as the aerospace, tooling and material forming, automotive, military and nuclear power industries. Various bearings on external control system of space vehicle's control limb should be heated at 10000C when they reenter to air friction. Therefore the high temperature solid lubricants are required for use on silicon nitride bearings with application temperature of 6000C and beyond. My talk will be focus on the Synthesis and tribological study of double metal oxides nanomaterials.

**MARTES 7 DICIEMBRE, 13:00 HORAS**

**Sala Conferencias, Tercer Piso - Departamento de Física  
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