

**PLANETARY SCIENCE -
ASTROBIOLOGY
SEMINAR SERIES**

Sponsored by CODE 691, CODE 693, & Goddard Center for Astrobiology

WINTER-SPRING 2009

- February 26** **Jessica Sunshine**, University of Maryland, Department of Astronomy
"Spinel Enrichment on Asteroid Surfaces as Evidence for Early Formation"
- March 12** **Carrie Anderson**, GSFC, Planetary Systems Laboratory
"Ice Clouds and Aerosols in Titan's Stratosphere from Cassini/CIRS"
- April 2** **Perry Gerakines**, Univ. of Alabama at Birmingham, Department of Physics
"Studies of Interstellar Ice Analogs Containing H₂O+CO₂+CH₃OH Mixtures:
15-micron Spectral Profile and Sublimation Behavior"
- April 9** **Mike Mumma**, GSFC, Solar system Exploration Division
"Methane on Mars"
- April 23** **Fabien Stalport**, GSFC, Atmospheric Experiments Laboratory
"Search for Life on Mars: Specific Signatures of Biominerals and Evolution of
Organic Matter Under Martian Conditions"
- May 7** **Reggie Hudson**, GSFC, Astrochemistry Laboratory
"Molecular Evolution and Change in Goddard's Cosmic Ice Laboratory"
- May 21** **Ashraf Ali**, GSFC, Catholic University of America
"From Small to Complex Organic Molecules in Titan's Atmosphere: A
Laboratory "CRESU" Technique - Chemistry at Extremely Low
Temperatures, and Reaction Kinetics at a New Frontier"

**BUILDING 2 CONFERENCE ROOM 8 3:30-4:30
REFRESHMENTS 3:15**

PLEASE POST!

VISITORS (CITIZENS) NEED TO CALL IN ADVANCE TO ARRANGE AN ESCORT
VISITORS (NON CITIZENS) NEED TO CALL 1 MONTH IN ADVANCE
CONTACT: MARLA MOORE 286-9031 (Marla.H.Moore@NASA.GOV)
OR MIKE SMITH 286-7495 (MICHAEL@CHRYSE.GSFC.NASA.GOV)

..... INNER PLANETS ASTEROIDS OUTER PLANETS --
..... COMETS ASTROBIOLOGY EXOPLANETS.....
