

For some simple ideas, go to www.girlsgotech.org

# MARSDAILY YOUR PORTAL TO MARS

### MARSDAILY

## Martian Surface Probably Cannot Support Life

by Staff Writers

Ann Arbor MI (SPX) Aug 01, 2006 The guestion of whether the planet Mars can support life has tantalized scientists for years, but research now suggests that Martian dust devils and storms produce oxidants that would render the planet's surface uninhabitable for life as it exists on Earth.

"As a consequence, any nascent life (microorganisms, for example) or even prebiotic molecules would find if hard to get a foothold on the surface of Mars, as the organic material would be scavenged efficiently by the surface oxidants," said lead researcher Sushil Atreya of Magnificent (and lifeless?) the University of Michigan.

Atreya said the research explains inconsistencies in earlier space experiments that sought to determine if Mars had or did support life. Mars is thought to have formed with the same ingredients that on Earth led to the formation of molecules associated with life. Yet, organic molecules have never been detected on the Martian surface.

The researchers calculated the excess carbon monoxide, hydroxyl and eventually hydrogen atoms produced when electric fields generated by dust devils and storms cause carbon dioxide and water molecules to split. Hydrogen and hydroxyl have been known to play a key role in the production of hydrogen peroxide in the Martian atmosphere.

The amounts of hydrogen peroxide produced during these reactions would be large enough to result in its condensation - essentially hydrogen peroxide would snow from the sky and contaminate the planet when it fell.

Atreya's research suggests that the hydrogen peroxide would scavenge organic Controversial Hypnosis material from Mars, and it could also accelerate the loss of methane on Mars, requiring a larger source to explain the recent detection of this gas on Mars.

"Methane is a metabolic byproduct of life as we know it, but presence of methane does not by itself imply existence of life on a planet," Atreya said.

Scientists regard Mars as Earth's closest relative. "Of all the planets in the solar Ads by Goooooogle system, Mars resembles the Earth most. And outside of the Earth, it has the



desolation. Image credit: NASA/JPL/Cornell



Ads by Goooooogle

NASA Recognized **Pillows** Proprietary Tempur-Pedic® Pillows Direct From The Only Manufacturer. www.800pillows.com

Mars Rover Model 1:18 scale die-cast model of Mars Rovers Spirit & **Opportunity!** www.countdowncreations.com

"Blueberries" explained Electric arcs create spherules in the laboratory www.thunderbolts.info

### The Surface Of The Sun

Soho reveals the sun has a solid surface which conducts electricity! www.thesurfaceofthesun.com

Breakthrough hypnosis tactics cause major uproar. Details inside. www.hiddenhypnosis.com

Advertise on this site

best chance of being habitable now or in the past when the planet may have been warmer and wetter," Atreya said.

Presence of life below the surface of Mars now or in the past is not ruled out by this research.

The results also help explain contradictory results in a series of experiments in 1970s that suggested microscopic life might have been present in Martian soil.

Called the Viking Project, the primary objective was to determine if there was life - dead or alive - on Mars.

Biological experiments conducted by the two landers, Viking 1 and 2, yielded conflicting results.

**Related Links** Mars rovers at JPL Mars life research abstracts

MARSDAILY

### Arkansas Planetary Science Center To Study Martian Water Chemistry



Fayetteville AR (SPX) Aug 01, 2006 A recent grant from NASA will enable the Arkansas Center for Space and Planetary Sciences at the University of Arkansas to continue its work creating missions to asteroids and exploring the possibilities and chemistry of water on Mars as part of the nation's space effort.

### Up all night Star **Gazing?** The astronomical secret

coffee co's don't want you to know. www.coffeefool.com

### Mars Hotels

Low Discount Rates on your Hotel in Mars. Maps and Photos. www.justlodgings.org

### Mars Hotels

Trying to find great deals? Compare low hotel rates before you book. Mars.WeCompareHotels.com

### <u>Mars</u>

Free Information and Resources About Mars Solar-System.Big.com

### Fun Kid Videos

Advertise on this site

Video Classroom with Dom DeLuise new kids DVD series -educational www.funkidvideos.com

### **Fun Kid Videos**

Video Classroom with Dom DeLuise new kids DVD series -educational www.funkidvideos.com

#### Mars Ringtones 14 Mars Ringtones available. 100% Free! www.free-ringtones-4u.net

### Nasa Surveys

We'll pay you \$75 right now to complete a simple survey! (aff) PaidSurveysOnline.com

### Ads by Gooooogle



SPACEDAILY MARKETPLACE AND CLASSIFIEDS Solar Energy Solutions :: Spanish Property for Sale Shop for telescopes online :: Memory Foam Mattress Review

Newsletters :: SpaceDaily Express :: SpaceWar Express :: TerraDaily Express XML Feeds :: Space News :: Earth News :: War News :: China News

### NUCLEAR SPACE

- Could NASA Get To Pluto Faster? Space Expert Says Yes By Thinking Nuclear
- NASA plans to send new robot to Jupiter
- Los Alamos Hopes To Lead New Era Of Nuclear Space Tranportion With Jovian Mission
- Boeing Selects Leader for Nuclear Space Systems Program

### SPACE TRAVEL

- Americas Space Conference Ends With Call For Co-Op
- Space Frontier Foundation Slams NASA CEV Plans
- Bigelow Releases First Images Inside Genesis
- China Looks To Space For Super Fruit And Vegetables

#### MOON DAILY

- NASA Chooses LM For LRO Launch Services
- Crash Landing On The Moon
- Mersenius Crater Shows Its Wrinkles ٠
- SMART-1 Sees Lava-Filled Crater

### OUTER PLANETS

- Nine Years To The Ninth Planet And Counting
- IAU Approves Names For Two Small Plutonian Moons
- Three Trojan Asteroids Share Neptune Orbit
- New Horizons Crosses The Asteroid Belt



Advertise on this site

### JOVIAN DREAMS

- Junior Spot Zips Past Great Red Spot On Jupiter
- Gemini Captures Close Encounter Of Two Jupiter Red Spots
- Gas Giants Consistently Larger Than Their Moons
- <u>Two Great Jovian Storms Converging</u>

### SATURN DAILY

- How The World Watched Huygens
- Evidence Strong That It Rains On Titan
- <u>Saturn Ring Spokes Appear Again</u>
- <u>Cassini Radar Spots Great Lakes On Titan</u>

### **VENUSIAN HEAT**

- Flying Over The Cloudy World
- Venus Express Spies Double Vortex
- Venus Express Commissioning Phase Completed
- Venus Express Reaches Final Mission Orbit

### **TECH SPACE**

- <u>Composite Technology to Improve Tactical Shelters</u>
- <u>FSRI Sponsors Microgravity Research Flights From Cape Canaveral Spaceport</u>
- <u>CNES Alcatel And Orange France Testing Hybrid Satellite System</u>
- Australian DTH TV Service To Use Harmonic IP-Based MPEG-2 Video Solution

The content herein, unless otherwise known to be public domain, are Copyright 1995-2006 - SpaceDaily.AFP and UPI Wire Stories are copyright Agence France-Presse and United Press International. ESA PortalReports are copyright European Space Agency. All NASA sourced material is public domain. Additionalcopyrights may apply in whole or part to other bona fide parties. Advertising does not imply endorsement, agreement or approval of any opinions, statements or information provided by SpaceDaily on any Web page published or hosted by SpaceDaily. Privacy Statement