

Saturn's Moons – A world expecting us to be known

I choose this target, because are many unknown things about these three satellites. By photos, filming and other researching methods, the scientific researchers perhaps will found some answers, will create theories and hypothesis. They will know for which obstacles will prepare the robots of the future and the space modules.

Titan, is the greatest Saturn's moon, was a priority in observations of Cassini's probe launched in 1997; researchers consider that on Titan are similar conditions as on the Earth before life appearance.

I hope that Cassini probe through filming made in October 2010, will surprise through a crack in the dense fog on Titan a far different landscape from those transmitted: drained valleys, liquid methane "lakes" and mysterious dunes with aspect of sand, which component is still obscure. ***Is this only a part of aspect of Titan's surface? Is the same as a probe would fall on the Earth in Grand Canyon or in Desert of Sahara? What other landscapes may be on this moon?***

In the transmitted images there are present the mode of manifestation of the matter in the known forms, but their components sometimes are unidentified. ***Is it possible that the probes discover compounds at which the computers on the board couldn't associate a name ... of the Earth?***

In the atmosphere on the Titan were detected organic substances, but the liquid on the Titan isn't water, but methane. On Titan...rains methane! Therefore, the researchers expect to find on this satellite life based on methane.

Also, the NASA's scientific researchers think that also on Enceladus may be life forms in an underground sea with liquid geizer's eruption, named as "tiger claw" feeding with material one ring of Saturn. ***Is the entire Universe composed of the same material that we know here on the Earth?***

How Tethys survived an impact as strong as crater appeared occupies 2/5 of its surface? It supposes that in the impact moment most part of it was in liquid state. ***As Earth now? What should we understand analysing this crater?***

If in January 2015 will be launched the project Titan Mare Explorer (TIME), the spaceship TIME would arrive on Titan in June 2023. In January 2015 I will be 16 years old, as when TIME will start to pass on information to the Earth I will be 24. Then I will understand and know many other things about investigation of the Universe.

But, until then, with each question about Universe, with each read message, with each watched images, I feel that I'm up to the stars.

Learning mathematics, physics, biology, chemistry with small steps I will be closer to be able to design probes and spacecrafts, or to be astronaut, or simply, to be a better Earthling, aware that far from Earth in time and space, is a world that expects us to know it.

Eseul a obținut Premiul II la Concursul de eseuri "Cassini - scientist for a day" destinat elevilor din clasele IV – XII, organizat de NASA, ediția a 9-a, 2010, Ținta nr. 2: Titan, Tethys, Enceladus, cu lucrarea: Lunile lui Saturn - O lume ce ne așteaptă să o cunoaștem (Profesor coordonator: Szatmari Dorina)

