



**Action CM 0805, the chemical
cosmos, working group 3:
chemistry in the solar system.**

**Carbon in the solar system: a workshop
Brussels 6-8 December 2010.**

Preliminary Agenda.

December 6

10h: welcome of the participants.

10h 15 The objectives of COST WG-3 and of the workshop series.

10h30: Fundamental of carbon chemistry related to the solar system.

13h Lunch

14h30

Session 1: - carbon and the origins on the solar system.

- carbon molecules in the interplanetary space.
- comets
- carbonaceous meteorites
- roles of comets and meteorites in the planetary evolution and processes.

Session 2: Giant planets and satellites.

18h: end of session: conclusions of the first day.

December 7

9h Session 2: Giant planets and satellites, continued if necessary.

10h 30 Session 2: Terrestrial planets.

- Venus: carbon chemistry in the Venusian atmosphere.
- Carbon and Venusian volcanisms.
- Mars: carbon chemistry in the Martian atmosphere.
- Mars surface and interior.
- Mars methane: discussion of current observations.
- Mars EXOMARS trace gases orbiter payload and carbon species.

13h : lunch.

14h : Continuation of session 2 terrestrial planet.

16h: General discussion, wrap up and conclusions.

December 8

Belgian ASTROBIOLOGY contact group science meeting.

This meeting is not covered by the COST action but all COST participants are welcome to attend.

9h30: Welcome of the participants.

9h45: Astro-chemistry aspects of astrobiology and planetary habitability.

13h: Lunch

14h: Extremophiles and life origin studies in the solar system.