

## **Light Scattering XIV Colloquium, Lille, France, 17-21 June 2013 SPECIAL SESSION “20 YEARS OF PROGRA2”**

The year 2013 marks the 20<sup>th</sup> anniversary of the PROGRA2 project to study light scattering by deposited and free-floating particles. This project is carried out in part through parabolic flight campaigns on board the European Airbus 300 “Zero-G”, and will have logged 45 campaigns at the end of 2012. CNES and ESA have been sponsoring this project and associated campaigns since 1993. At the time when the colloquium will be held the project will have produced some 45 publications in international peer-reviewed journals, various memoirs (PhD, habilitations) and over 100 communications in various conference proceedings.

The PROGRA2 concept encompasses a suite of five instruments carrying out measurements at different wavelengths between 500 and 1500 nanometres: PROGRA2-VIS, PROGRA2-IR, PROGRA2-SURF, PROGRA2-REGOLITH, and PROGRA2-AERO (measurements on liquid aerosols). This instrumental suite enables researchers to document optical properties (polarisation, brightness) of particles in various configurations, ranging from large 100 micrometre free-floating grains to deposited particles. In particular the instrument allows the measurement of these parameters on very absorbing particles (carbonaceous compounds).

A more detailed presentation of the instruments and of its scientific results is available on-line at:

<http://www.icare.univ-lille1.fr/progra2/index.html>

The LS XIV Colloquium provides a good occasion to highlight this 20-year milestone through dedicated presentations of the scientific results achieved by the project over the last two decades. The organisers have agreed to schedule a special session dedicated to the PROGRA2 results. Researchers involved in PROGRA2 or who have been associated to this project, are therefore encouraged to submit targeted abstracts, in particular in – but not restricted to – the following areas.

- Measurement strategy and presentation of the PROGRA2 database ;
- Optical characterisation of liquid atmospheric aerosols (remote measurement and aerosol counters);
- Optical properties of IDP, cometary dust and carbonaceous compounds ;
- Study of tholins ;
- Optical properties of regoliths ;
- Contribution to related projects, and in particular ICAPS (experiment selected by ESA to fly on board the ISS).

The deadline for submitting abstracts to LS XIV is 15 December, including the mention: “***Special session - 20 years of PROGRA2***”.

Organisers of the session: J.C. Worms, J.B. Renard