



# METEORITES – UNDERSTANDING THE ORIGINS OF PLANETODIVERSITY

Paris June 6<sup>th</sup> - 8<sup>th</sup> 2018

Conveners : M Gounelle & M Roskosz

## Wednesday 6<sup>th</sup>

09.30 - 10.00	Welcome (coffee) and registration
10.00 - 12.30	Scientific sessions
12.50 - 14.00	Lunch
14.00 - 18.00	Scientific sessions

## Thursday 7<sup>th</sup>

09.30 - 12.40	Scientific sessions
12.40 - 14.00	Lunch
14.00 - 17.50	Scientific sessions
19.00 - 20.00	Visit of the exhibit « Météorites entre ciel et terre »
20.30 - 22.30	Cocktail

## Friday 8<sup>th</sup>

09.30 - 12.40	Scientific sessions
12.40 - 14.00	Lunch
14.00 - 18.00	Scientific sessions

MNHN | Grande Galerie de l'Évolution  
36 rue Geoffroy St Hilaire | 75005 Paris

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# Workshop "Meteorites - Understanding the origin of planetodiversity"

Paris, June 6<sup>th</sup>-8<sup>th</sup> 2018

## Wednesday 6<sup>th</sup>

09h30		Registration
10h00	Organizers	Introduction and welcome
10h20	Larry Nittler	Tibute to Catherine Floss
10h30	Kleine Thorsten	Meteorite dichotomy, formation of Jupiter and accretion of the Earth
10h50	Brennecke Greg	COSMOLOCATION OF THE SOLAR SYSTEM'S EARLIEST DATED SOLIDS
11h10	Pignatale Francesco	The first 200 kyr of the Solar System
11h30	Palme Herbert	Meteorites and the parent material of the earth
11h50	Pourkhorsandi Hamec	ORDINARY CHONDRITES: MORE THAN THREE GROUPS
12h10	Moggi Cecchi Vanni	PRELIMINARY RESULTS OF SELECTED METEORITES RECOVERED DURING THE 2017 LUT DESERT JOINT EXPEDITION
12h30	Lunch break	
14h00	Russell Sara	Chondrules: Records of protoplanetary disk processes
14h30	Krot Alexander	Origin of refractory and ultrarefractory inclusions in carbonaceous chondrites
14h50	Hezel Dominik	THE FORMATION LOCATION OF CHONDRULES IN INDIVIDUAL CHONDRITES.
15h10	Metzler Knut	TRUE (3D) CHONDRULE SIZE-FREQUENCY DISTRIBUTIONS IN ORDINARY CHONDRITES
15h30	Faure Francois	ORIGIN OF SILICA-RICH GLASS INCLUSIONS HOSTED IN PORPHYRITIC MAGNESIAN OLIVINES IN CHONDRULES
15h50	Coffee break (30')	
16h20	Marrocchi Yves	OXYGEN ISOTOPIC DIVERSITY OF CHONDRULE PRECURSORS AND THE NEBULAR ORIGIN OF CHONDRULES
16h40	Jacquet Emmanuel	Chondrules: nebular precursors but nebulous processes
17h00	Gregory Timothy	Relicts of the Past: Refractory Olivine Grains in Unequilibrated Chondrites
17h20	Lévy Dan	Alteration phases in Ca-Al rich inclusion xenoliths: evidence for nebular processes?

## Thursday 7<sup>th</sup>

09h00		Coffee
09h30	Nittler Larry	Inheritance of presolar and interstellar matter in primitive astromaterials
10h00	Desch Steve	RESOLUTION OF THE CAI STORAGE PROBLEM & THE TIME AND PLACE OF METEORITE PARENT BODIES FORMATION
10h20	Aleon Jerome	Origin of the mineralogical control on O isotopes in igneous CAIs
10h40	Dhaliwal Jasmeet	A Kinetic Model for Mass-Independent Oxygen in Early Solar System Materials
11h00	Nakamoto Taishi	A Model for Generation of Isotope Anomalies in the Inner Solar System by Inhomogeneous Molecular Cloud Core
11h20	Coffee break (30')	
11h40	Lopez Sepulcre Ana	The protostellar cluster OMC-2 FIR 4: a laboratory to study the formation environment of the Solar System
12h00	Charnoz Sebastien	Large-scale planetesimal formation and water transport in evolving protoplanetary disks with a dead-zone
12h20	Vacher Lionel	Isotopic Recording of Outer Disk Water Ices In CM Chondrites
12h40	Lunch break	
14h00	Zolensky Michael	The comet-carbonaceous chondrite connection
14h30	Tachibana Shogo	LIQUID-LIKE BEHAVIOR OF UV-IRRADIATED INTERSTELLAR ICE AT LOW TEMPERATURES
14h50	Le Guillou Corentin	AMORPHOUS SILICATES IN GEMS AND CHONDRITE MATRICES: DISCUSSING THE NATURE OF THEIR RELATIONSHIP
15h10	Zanetta Pierre-Marie	COMPARISON OF THE MINERALOGY OF FINE-GRAINED RIMS AND ADJACENT MATRIX IN THE CM PARIS CHONDRITE
15h30	Ng Rudraswami	MICROMETEORITES AND ITS RELATION TO DIFFERENT TYPES OF CHONDRITES.
15h50	Coffee break (30')	
16h20	Leonardo Testi	Protoplanetary disks : a review
16h50	Duprat Jean	ULTRACARBONACEOUS MICROMETEORITES, ORGANICS AND MINERALS FROM COMETARY DUST.
17h10	Van Ginneken M	Micrometeorites from the Sor Rondane Mountains, Antarctica
17h30	Auge Basile	Effects of Galactic Cosmic Rays on the surface of transneptunians objets, implication for ultra-carbonaceous Antarctic micrometeorites

## Friday 8<sup>th</sup>

09h00		Coffee
09h30	Johansen Anders	Planetesimal formation in the Solar System
10h00	Young Edward	Stable isotope evidence for planetesimal evaporation
10h20	Limare Angela	EARLY ACCRETION OF PLANETESIMALS UNRAVELED BY A CONVECTIVE MODEL OF THERMAL EVOLUTION
10h40	Hellmann Jan	The Thermal and Impact History of Asteroids Inferred from Hf-W Chronometry of Ordinary Chondrites
11h00	Lantz Celine	IRRADIATION OF METEORITES: DECODING SPACE WEATHERING ON LOW ALBEDO ASTEROIDS
11h20	Coffee break (30')	
11h40	Zipfel Jutta	Phosphate formation in highly equilibrated chondrites with CR-affinity
12h00	Rochette Pierre	Martian meteorites through the lens of magnetic properties and new findings
12h20	Griffin Sammy	Reassessing the geochemical evolution of the Nakhlite meteorites as multiple lava flows
12h40	Lunch break	
14h00	Carrasco Nathalie	The fate of Carbon in planetary atmospheres
14h30	Orthous-Daunay FR	A NATURAL HISTORY OF ORGANIC MOLECULES IN THE SOLAR SYSTEM
14h50	Piani Laurette	Volatile-rich chondrules and metal-sulfide nodules in enstatite chondrite
15h10	Bonal Lydie	Water and heat: new constraints on the parent body evolution of CV chondrites
15h30	Tartese Romain	Investigating early Solar System volatiles through in situ analysis of phosphates in the Graves Nunataks 06128 achondrite
15h50	Coffee break (30')	
16h20	Gattacceca Jerome	Partial differentiation of the CV parent body supported by the paleomagnetic study of 21 CV3 meteorites
16h40	Nabiei Farhang	Was the ureilite parent body as large as Mars?
17h00	Valdes Maria	Investigation of stable calcium isotopes in ureilites
17h20	Florin Guillaume	Germanium isotopic distribution in ordinary chondrites. Inference on metal formation & planetesimals evolution
17h40	Jambon Albert	Carbonatitic magmatism in the early Solar System?