



DIPARTIMENTO
DI GEOSCIENZE



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Seminario

**Accretion of extraterrestrial matter recorded in the
Permian-Jurassic bedded chert sequence, southwest
Japan**

Martedì, 16 maggio 2017 – ore 16:30
Aula Arduino

Relatore: **Tetsuji Onou**
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Abstract:

Permian to Jurassic bedded chert sequences in the Japanese accretionary complexes are recognized as pelagic deep-sea deposits and characterized by a very low sedimentation rate (less than a few millimeters per thousand years) and absence of coarse-grained terrigenous clastics. Owing to their low sedimentation rate and long-term continuous deposition, these bedded cherts could provide the accretion history of extraterrestrial matter over geologic time. In this seminar, I will review studies of extraterrestrial matter in bedded chert sequences from the Mino accretionary complexes, southwest Japan. The following topics will be presented and discussed in the seminar.

- Helium isotope results across a Permian/Triassic boundary section in Japan and end-Permian mass extinction.
- Cosmic spherules found in the Triassic and Jurassic bedded cherts.
- Collapse of marine ecosystem triggered by a Norian (Late Triassic) impact event.

Proponente: Manuel Rigo