



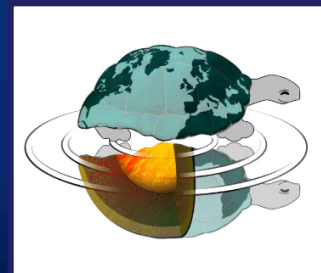
UNIVERSITÀ DEGLI STUDI DI MILANO



Corso di Dottorato in  
Scienze della Terra

Dipartimento di Eccellenza 2018-2022

LE GEOSCIENZE PER LA SOCIETÀ: RISORSE E LORO EVOLUZIONE



Milano - 10-11 Giugno 2019 - Short course (3 cfu)

## Advances in exploration targeting for magmatic Ni-Cu-PGE mineral systems

by Marco Fiorentini and David Holwell

Aula D, via Botticelli 23, Milano



**Marco Fiorentini**

Centre for Exploration Targeting,  
University of Western Australia

Participants of this course will gain a better insight on the latest advances in nickel-copper sulphide targeting, from terrain to deposit scale. This two-day course will provide a comprehensive overview of the nickel-copper-sulfide mineral system, showcasing the latest advances in the fundamental science that underpins genetic models for a wide range of magmatic systems, with sample material from key world class deposits.



**David Holwell**

University of Leicester, UK

**Per informazioni e iscrizione contattare: Massimo Tiepolo ([massimo.tiepolo@unimi.it](mailto:massimo.tiepolo@unimi.it))**

Attività Didattiche di Elevata Qualificazione – ADEQ – legate al Progetto di Eccellenza Dipartimentale (2018-2022) e al Corso di Dottorato in Scienze della Terra



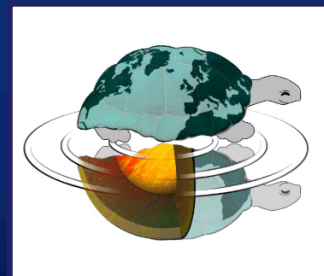
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## Program

### 10 June

Marco Fiorentini	Introduction to the Magmatic Mineral System framework	8.30-9.00
Marco Fiorentini	The geodynamic setting of magmatic mineral systems	9.00-9.45
Marco Fiorentini	The role of the mantle lithosphere in the generation of ore deposits associated with magmatic mineral systems	9.45-10.30
David Holwell	Composition of Ni-Cu-PGE magmas	10.30-11.30
Marco Fiorentini	Metal and sulphur sources in magmatic mineral systems	11.30-12.30
Marco Fiorentini	Multi-scale physical emplacement processes of magmatic mineral systems: magma dynamics and ore genesis	13.30-14.30
David Holwell	Mineral systems associated with mafic provinces	14.30-15.30
Marco Fiorentini	Mineral systems associated with komatiites	15.30-17.30

### 11 June

David Holwell	Mineral systems associated with layered intrusions	9.00-10.00
David Holwell	The role of carbonate in the physical entrainment of metal-rich sulfide liquids	10.00-11.00
Marco Fiorentini	The Ivrea Zone as a natural laboratory to constrain multi-scale ore forming processes in the continental lithosphere	11.00-12.00
David Holwell	The Munal Ni-Cu deposit, Zambia	12.00-13.00
Marco Fiorentini	Review of drones, photogrammetry and emerging sensor technology for the study of dykes: Best practises and future potential	14.00-15.00
Marco Fiorentini	Litohgeochemistry applied to exploration for magmatic mineral systems	15.00-16.00
Marco Fiorentini	Sample collection display, discussion and wrap up	16.00-17.00

**Per informazioni e iscrizione contattare: Massimo Tiepolo ([massimo.tiepolo@unimi.it](mailto:massimo.tiepolo@unimi.it))**