

2022 URANIUM COURSE

from ore forming
processes to
exploration and
production...



OCTOBER 5-7



seg-chapter@sci.muni.cz



Department of Geological Sciences,
Faculty of Science Masaryk University,
Kotlářská 2, Brno, Czech Republic
→ Building 01 - dean's office

MUNI Department
of Geological
SCI Sciences



Main speaker:
Dr. Michel Cuney

CNRS and Université de Lorraine

IN COLLABORATION WITH
MASARYK UNIVERSITY BRNO
SEG STUDENT CHAPTER



EUROPEAN UNION
European Structural and Investment Funds
Operational Programme Research,
Development and Education



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Schedule of the course

| DAY 1 (5 th October) | |
|---------------------------------|---|
| 9:00 – 10:30 | (I) Uranium, thorium, REE physical and chemical properties, and implications for exploration. |
| 10:30 – 11:00 | COFFEE BREAK |
| 11:00 – 12:30 | (II) U, Th, REE mineralogy and its distribution in the rocks. A practical approach for the knowledge of the main uranium minerals and their meaning as uranium sources. |
| 12:30 – 14:00 | LUNCH |
| 14:00 – 15:30 | (III) U deposit classifications |
| 15:30 – 16:00 | COFFEE BREAK |
| 16:00 – 17:30 | (IV) U deposit types and ore forming processes and their evolution through time |

| DAY 2 (6 th October) | |
|---------------------------------|---|
| 9:00 – 10:30 | (V) U and Th fractionation during magmatic processes and magma types, how to generate the best U sources. |
| 10:30 – 10:40 | COFFEE BREAK |
| 10:40 – 12:30 | (VI) Hydrothermal U veins associated with granites (mid-European Variscan belt) |
| 12:30 – 14:00 | LUNCH |
| 14:00 – 15:30 | (VII) Hydrothermal Na-metasomatic → Lagoa Real (Brazil) → Central Ukrainian Province → Other world occurrences |
| 15:30 – 16:00 | COFFEE BREAK |
| 16:00 – 17:30 | (VII) History of U production, world U resources and demand |

| DAY 3 (7 th October) | |
|---------------------------------|------------------------------------|
| 9:00 – 10:30 | (IX) Exploration methodologies (i) |
| 10:30 – 11:00 | COFFEE BREAK |
| 11:00 – 12:30 | (X) Exploration methodologies (ii) |
| 12:30 – 14:00 | LUNCH |