

April 4, 2014
Time: 14:00-15:30

Oulu University
Dept. of Geology
Magmatic Ore Deposits

Answer 4 questions and make sketches where necessary

- ① Discuss exploration criteria for magmatic Cr and V deposits (i.e. where do such deposits occur, on a global scale and within their actual host bodies, and what governs the quality of the ore).
- ② Explain in detail the several factors that are important in the formation of komatiite-hosted Ni deposits.
- ③ Discuss the contrasting tectonic environments for Ni-Cu and PGE deposits (i.e. which type of deposits occur in which environment, and give reasons)
4. Using geochemistry, how can you evaluate whether a poorly outcropping layered intrusion is prospective for PGE deposits?
- ⑤ Where in Europe would you be exploring for diamond deposits? Give reasons.