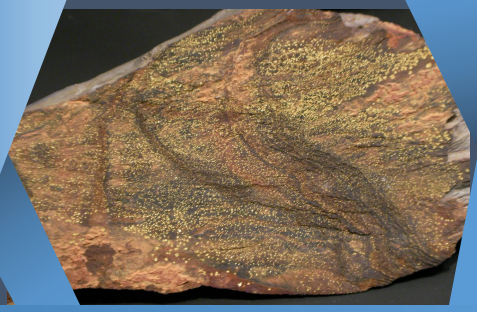
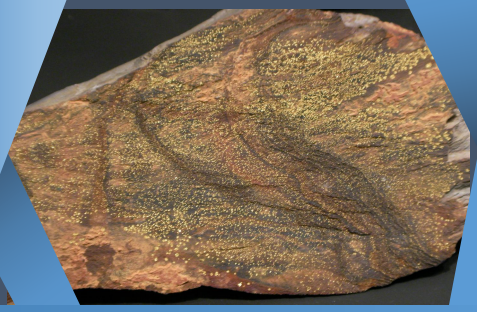


Mineral Exploration Academy

Schedule of classes

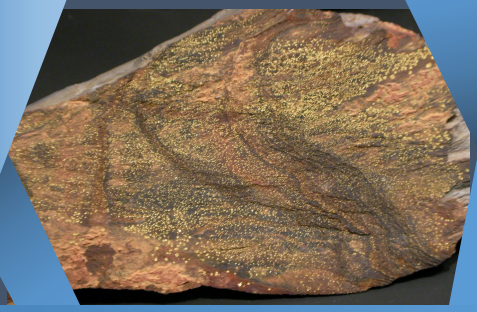
A class is 30 min. The videos would be max 30min. Longer classes will be split into a series of 30 min classes.

1. Field Safety - 30 min
2. Basic Field Concepts - 30 min
    a) Field Note Book
    b) Field Dress, shoes, field jacket
    c) Field Gear
    d) Sampling tools
    e) GPS and its use. Data download and upload.
    f) Geotagged and oriented photographs
    g) Android apps for field geology
3. Exploring in foreign countries - 30 min
    a) Cultural and racial sensitivity
    b) Food
    c) How to be part of multicultural teams
4. Field observations - 60 min
    a) Lithology
    b) Structure
    c) Alteration
    d) Stratigraphy
    e) Field Anomalies
    f) Geomorphology
    g) Topography



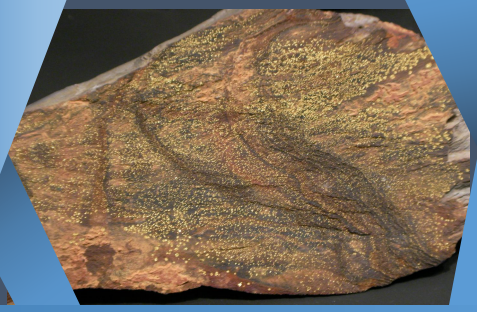
h) Vegetation, Introduction to Geobotanical tool of mineral exploration
i) Sediment traps in streams
j) Gravel beds
k) Petrological sampling
l) Common field mistakes

5. Geochemical sampling - 60 min
   a) Soil, Grab, chip, channel, bulk
   b) Geochemical orientation sampling
   c) Sample quantity - soil, chip, channel, bulk
   d) Stream sediment sampling: principle, method and significance
   e) How to improve quality of sample: Concept of composite samples
   f) Sample packing and numbering
   g) Sample location log - profile, coordinates, depth, observations on site
   h) Field sampling QA-QC
6. Sample dispatch and assay protocols - 60 min
   a) Sample custody certification and legal requirements
   b) Define sample preparation and analysis protocols
   c) Lab assay order form
   d) Keeping tabs of the lab
   e) How to judge a lab
   f) Round robin tests
   g) Handling lab reports, database, concept of background and anomaly
   h) QA-QC parameters
7. Exploration Geophysical Tools - their applications and limitations - 120 min
   a) Airborne - define parameters, line spacing, flying height and instrument height, limitations, data processing, interpretation
      i. Magnetic
      ii. Radiometric
   b) Ground magnetic



c) Ground resistivity and IP
d) GPR
e) EM
f) Gravity
g) Magnetotelluric - NSAMT and CSAMT

8. Remote sensing - 90 min
   a) Resolution - spatial and spectral
   b) Digital image processing
   c) Image interpretation
   d) Using classification to make discoveries
9. Exploration Database Management in GIS and exploration data QA-QC - 30 min
10. Drilling - 120 min
    a) Safety during drilling operation
    b) Environmental baseline and watershed environmental monitoring
    c) Target identification
    d) Choosing the drilling method - pros and cons of Diamond, RC, DTH, oriented drilling
    e) Drill pad preparation and drill hole siting
    f) Placing the drill rig on drill pad
    g) Non core logging
    h) Core logging - lithology, alteration, structure, minerals, RQD, logging templates, QA-QC
    i) Core sampling protocols, marking samples, sampling QA-QC. Sample packing, numbering, weighing, inserting blanks, standards duplicates and replicates
    j) Specific gravity measurements
    k) Drilling database QA-QC
    l) Storage of half cores, coarse rejects and pulp duplicates
    m) Environmental rehabilitation of drill sites
11. Interpreting logging and assay data to build deposit model - 120 min
    a) Concept of geological and geographical boundaries
    b) Basic geostatistics and ore body modelling



c) Software for modelling

d) Concept of Resources and Reserve, reporting standards JORC, NI43-101, CRIRSCO

e) Deposit classification under UNFC

12. Mining geology concepts - 30 min
13. How to explore limestone deposits? - 60 min
14. How to explore Enriched BIF type iron ore? - 60 min
15. How to explore Bauxite deposits? - 60 min
16. How to explore mineral sand deposits? - 90 min
17. How to explore Orogenic deposits? - 90 min
18. How to explore metamorphic deposits? - 90 min
19. How to explore Porphyry deposits? - 90 min
20. How to explore carbonate replacement deposits? - 90 min
21. Introduction to “mineral systems” and “mineral system” concept of exploration - 30 min
22. Case studies - 240 min