



## SHORT COURSE | November 11-15, 2019

# METALLOGENIC CARTOGRAPHY

### COURSE TOPICS

#### MODULE 1:

##### GENERAL CONCEPTS

- Metallogeny: Deposit models, tectonic setting
- Paragenesis: Deposit models and related paragenetic associations. Study methods
- Isotopes. Stable (S-O-C) and radioactive isotopes (K-Ar, Ar-Ar, U-Pb, Sm-Nd, Rb-Sr). Their use in metallogenic studies

#### MODULE 2:

##### MAIN DEPOSIT MODELS

- Porphyry type deposits
- Epithermal deposits
- Deposit models and related hydrothermal alterations

#### MODULE 3:

##### REGIONAL METALLOGENIC EVALUATIONS

- Remote sensing Identification of hydrothermal alteration anomalies
- Study of ores: Fluid inclusions
- Geochemistry and airborne geophysics tools for regional exploration
- Metallogenic cartography

#### MODULE 4:

##### EVALUATION OF RESOURCES

- Mining potential evaluation: Data compilation, preparation of preliminary maps. Mineral deposits databases. Analysis and selection of areas. Identification of anomalies. Results evaluation.
- Numerical modelling for identification of anomalous areas
- Estimation of resources and reserves in technical reports. QA/QC criteria (Quality assurance/quality control. Information analysis in 43-101 and JORC reports

#### MODULE 5:

##### STUDY CASES

- A practical example: from the metallogenic maps to the evaluation of mining potential.

### OBJECTIVES

This short course is aimed at young professionals and PhD students of Latin America and offers training in techniques for regional metallogenetic evaluation, including general concepts, review of the main deposit models, evaluation of mining potential and the application of the methodologies considered in case studies.

### INSTRUCTORS

Lic. María Dolores Alvarez (SEGEMAR – Geophysics)  
 Lic. Gabriel Asato (SEGEMAR – GIS)  
 Lic. Diego Azcurra (SEGEMAR – Remote Sensing)  
 Dr. Julio Bruna Novillo (SEGEMAR – Consultant Geologist)  
 Dr. Andreas Dietrich (IAGOD - Dietrich Consulting EIRL)  
 Lic. Fernando Ganem (SEGEMAR – Consultant Geologist)  
 Dr. Martín Gozálvez (SEGEMAR – Director)  
 Dr. Diego Guido (UNLP - IAGOD Regional Councillor South America)  
 Dr. Noelia Iannizzotto (SEGEMAR – Mineral Resources)  
 Lic. Inés Korzeniewski (SEGEMAR – Fluid Inclusions)  
 Lic. Cintia Marquetti (SEGEMAR – Mineral Resources)  
 Dr. Javier Peroni (SEGEMAR - Geophysics)  
 Dr. Nora Rubinstein (CONICET – First Vice President IAGOD)  
 Lic. Andrea Turel (SEGEMAR - Geochemistry)  
 Dr. Eduardo Zappettini (SEGEMAR – President IAGOD)

### PRACTICAL INFORMATION

**LANGUAGE:** Spanish **COST:** US\$ 250

**INSCRIPTION:** deadline: 30 September, 2019

**SCHOLARSHIPS:** 10 scholarships will be awarded to PhD students that will cover the cost of stay during the course and the cost of registration.

**POSTULATION:** Applicants must submit their CV, certificate of doctoral studies and a cover letter prepared by the thesis director. Send the scanned documents by email

For postulations and inscriptions contact:

silvina.lebars@segemar.gov.ar until August 31, 2019.

Total quota of the course is 25 seats including scholarships).

