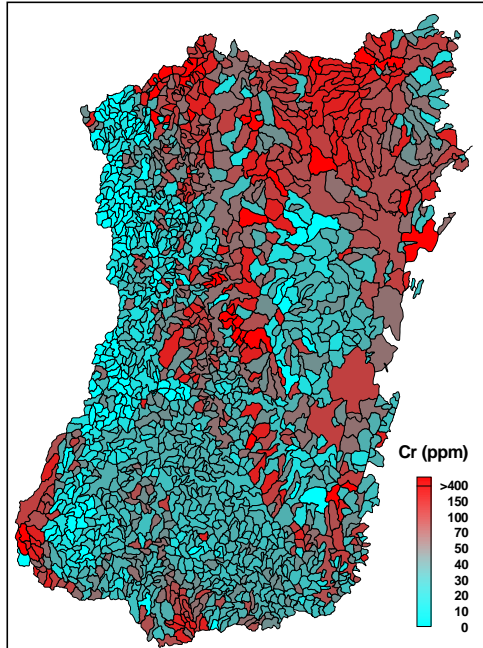


# New Approaches to Detecting Geochemical Anomalies



Key elements in the design and interpretation of geochemical surveys

Regolith evolution, geochemical landscapes and conceptual models

Definitions and causes of "geochemical anomalism"

Sampling media options - "from the conventional to the radical"

New generation selective geochemical extractions - "myths, promises and realities"

Identifying multivariate geochemical anomalies using statistical methods - "the traditional versus the new"

Case studies from eastern Australia, including data processing and presentation techniques

**Neil Rutherford** Rutherford Mineral Resource Consultants

and

**David Cohen** School of BEES, University of NSW

**Neil Rutherford** has over 25 years experience as a consultant in geochemical exploration for gold and base metal deposits. He was involved in development of the Regoleach technique for ALS-Chemex. He specialises in field project design and management, data integration and interpretation and processing methods.

**David Cohen** is a senior lecturer in geochemistry and geological data processing at UNSW and is an associate of CRC LEME. His research areas extend from sampling and analytical methods to development and application of statistical techniques.