

## Heap Leaching and its Application to Copper, Gold, Uranium & Nickel Ores

This practically oriented course has been crafted over many years by Alan Taylor, Metallurgical Consultant and Managing Director, ALTA Metallurgical Services. This course is presented as both a valuable introduction for newcomers and a useful refresher for old hands. ALTA courses are updated annually.

### Participation Options

- Classroom style at ALTA conferences
- Video On-Demand, includes email interaction with course presenter
- Dedicated interactive online sessions for your team

### Course Overview

- Heap leaching technology general
- Applications of heap leaching
- Testwork and scale-up
- Industry trends

### Duration

The course is presented over 7.5 hours, including breaks. For CPD recording purposes, please refer to your own regulator's requirements as recognition of CPD hours may vary.

### Course Materials

In-person attendees receive the hardcopy manual at registration and an electronic copy after the course. Online participants receive the electronic course manual prior to the course. The manual is valued at A\$300.

### Fees (Australian dollars including GST)

Classroom style at ALTA Conferences	
Delegate	\$850
Discount Delegate early bird, 3+ delegates, exhibitor, sponsor	\$800
Young Professional and Academic	\$600
Self-Funded Delegate	\$500
Student	\$250

Video On-Demand	
Attendee	\$595
Discount Attendee Self-funded, young professional, academic	\$450
Student	\$150

### Course Presenter

#### Alan Taylor

Metallurgical Consultant and Managing Director

#### [Detailed experience](#)

ALTA was established by metallurgical consultant Alan Taylor in 1985 to serve the worldwide mining, minerals and metallurgical industries. Alan has 40+ years' experience in the metallurgical, mineral and chemical processing industries in Australasia, New Zealand, North and South America, Africa, Asia and Europe.

Alan draws from his extensive first-hand experience with major engineering firms and as an independent consultant. He has worked on a wide variety of projects from the late 1960s through to the present time - a period which has seen the introduction of many new technical developments.



**Course Schedule**

## Introduction

## Heap leaching technology general

- Introduction
- Basics
- Typical flowsheets
- Leach pad design and construction
- Heap building methods
- Leach solution management
- Operation and control
- Cold and wet climate operation

## Break

## Applications of heap leaching

- Application to copper ores
- Role of bacteria
- Copper heap leach design criteria

## Break

## Applications of heap leaching (continued)

- Application to gold ores
- Application to uranium ores
- Application to nickel ores

## Break

## Alternative methods of re-oxidizing ferrous iron to ferric

Testwork and scale-up

Industry trends