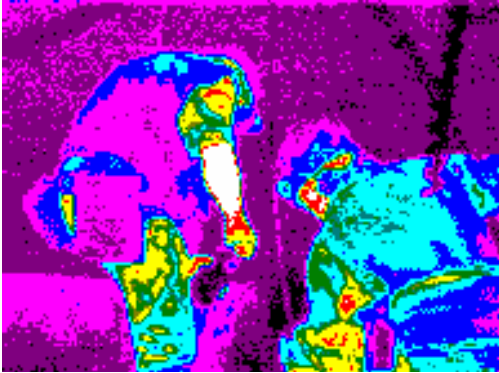


VENTILATION AND HEAT MANAGEMENT IN DEEP MINES

PRESENTED BY: DR. ROY MOREBY

Hosted by: **MIRARCO**
November 6th – 10th 2006
LAURENTIAN UNIVERSITY – SUDBURY, ONTARIO CANADA



This 5 day short course will cover the underlying theory and operational considerations required to design and implement ventilation and heat management systems in deep metaliferous mines. The course contents have been developed from modules used for training post graduate and industry candidates at the University of New South Wales. These modules are provided on CD and include standard texts, industry guidelines, case studies and spreadsheets containing many of the calculations methods described. These will be delivered from both a theoretical and operational perspective with the aim that course contents are immediately relevant to industry.

Day 1

- Ventilation theory and practice
- Friction and shock losses
- Fan characteristics, operation and testing

Day 2

- Ventilation network analysis
- Mine gases and gas laws
- Gas monitoring systems
- Mine ventilation surveys

Day 3

- Psychometry (of compressible moist air in mines)
- Sources of heat in mines
- Heat stress and heat management

Day 4

- Quantifying heat management requirements
- Refrigeration theory and practice
- The Canadian Perspective (CANMET-MMSL)

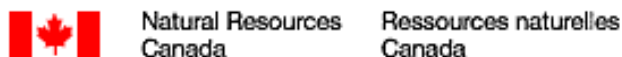
Day 5

- Project economics
- Management plan approach to control ventilation and heat management
- System strategies; Case studies and worked examples

It is assumed that course attendees will have sufficient mining experience to understand mining terminology and appreciate operational issues associated with course contents. A reasonable ability in mathematics and use of spreadsheets is required for participants to gain most from this course.

Dr. Roy Moreby is Associate Professor of Mining and Director of the Australian National Centre for Mine Ventilation at the School of Mining Engineering, University of New South Wales, Sydney, Australia. He has 25 years underground ventilation experience in both metalliferous and coal mining sectors of South Africa, the United Kingdom and Australia.

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