



Short Course on Energy Efficiency Improvements in Massive Comminution Circuits

Lecturer: Alvaro Videla Leiva

Pontificia Universidad Católica de Chile

Short description of the lecture (up to 10 sentences):

It will be focus on topics related to the current state of copper bioleaching and its latest developments.

Syllabus of the lecture subjects (enlisted):

1. Comminution Fundamentals. Grinding Circuits. Specific Energy Consumption and Product Particle Size Relationship.
2. Massive Comminution Circuits in America. Flowsheets Analysis, Energy performance comparison and Challenges.
3. Fundamentals on Comminution Theory. Particle Size Control and Mineral Liberation Characterization. QEMScan and XMT Technologies.
4. Advances on Comminution Energy Efficiency Characterization. Equipment for Testing and Control.
5. Predicting Particle Size for Design and Optimization. Comminution Models: The Population Balance Model Approach. Scale-up and Optimum Design. Optimization Rules for maximum Efficiency.
6. Drivers in the Evolution of the comminution technology. Advances and pit-falls. Liner Design. Grinding Media. HPGR vs SAG. Evaluation Fundamentals.
7. Towards a Sustainable Mining Industry. Comminution Energy Consumption Evolution. Trends and Challenges.



Terminy wykładów			
Data	Dzień tyg.	Godzina	Sala
2015-11-16	Pn	12.15-15.00	WEiA E28
2015-11-17	Wt	12.15-15.00	WEiA E28
2015-11-18	Śr	12.15-15.00	WEiA E28
2015-11-19	Cz	12.15-15.00	WEiA E28
2015-11-20	Pt	12.15-15.00	Stare WETI EA 06/08