

INNOVATION of MINING ENGINEERING

At
UNIVERSITY of LIBERIA

PRESENTED

By



Shri Adolphus M. G. D. Gleekia

**Master of Technology (M.Tech) & BSc. (Mining Engineering)
AA (Mathematics) & Diploma (Remote Sensing/ GIS)**

Lecturer/Mining Engineer

**DEPT. OF MINING ENGINEERING
COLLEGE OF ENGINEERING
UNIVERSITY OF LIBERIA**

MONROVIA -1000 -10

Email: adolphusgkia@gmail.com

Mobile: +231777081149

ABSTRACT



Mining is an innovative & Hazardous profession. Thus, it is required that students studying Mining Engineering apply innovative skills by developing basic Mining Engineering Models, to be on pile with their peers in top mining schools around the globe.

The Mining Engineering Department of the University of Liberia is aimed at enhancing the innovative skills of her students.

This Presentation presents some of the innovative Mining Engineering Models developed by students of Mining Engineering Department, UL, from 1st Semester Academic 2016/2017 through 2nd Semester Academic 2016/2017.

An Open Cast Mine



MNG Gold Mine (Liberia)



Gold
Dore



The First Mining Engineering Model Developed by Surface & Underground Mining Systems (Mine 316) Students during 1st, Academic 2016.

1.0 An Open Pit Diamond Mine With Spiral Ramp



2.0 Belt Conveyor With Tub for Material Handling in Mines

Developed 2nd 2016/2017 By Mine 316 Students



3.0 An Open Pit Mining Model With Lighting & Processing Facilities

Developed 2nd 2016/2017 By Mine 316 Students



4.0 A Power Electric Rope Shovel Excavator

Developed 2nd 2016/2017 By Mine 446 Students (Seniors)



5.0 A 120T Mine Dumper

Developed 2nd 2016/2017 By Mine 316 Students



6.0 Shovel & Dumper Combination IN MINE



An Operating View of Shovel Excavator & Dumper IN MINE



7.0 Longwall Shearer – This Machine has revolutionized Mining



Developed 2nd 2016/2017 By Mine 316 Students



8.0 Slake Durability Apparatus for Abrasive Testing of Rocks (**Rock Mechanics**)

Developed 2nd 2016/2017 By Mine 316 Students



9.0 An Open Pit shifted to Underground Mine

Developed 2nd 2016/2017 By Mine 446 Students (Seniors)



10.0 Integrated Underground Bore & Pillar & Longwall



Developed 2nd 2016/2017 By Mine 446 Students (**Seniors**)



12. Hydraulic Jack Used in Oil & Gas Production

Developed 2nd 2016/2017 By Mine 400 Students



13. Geothermal Power Plant (a renewable energy source)

Developed 2nd 2016/2017 By Mine 400 Students



14. Hydro Power Plant (a renewable energy source)

Developed 2nd 2016/2017 By Mine 400 Students









THANK
YOU

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