## INNOVATION OF MINING ENGINEERING 2017

DEPARTMENT OF MINING ENGINEERING

COLLEGE OF ENGINEERING

UNIVERSITY OF LIBERIA

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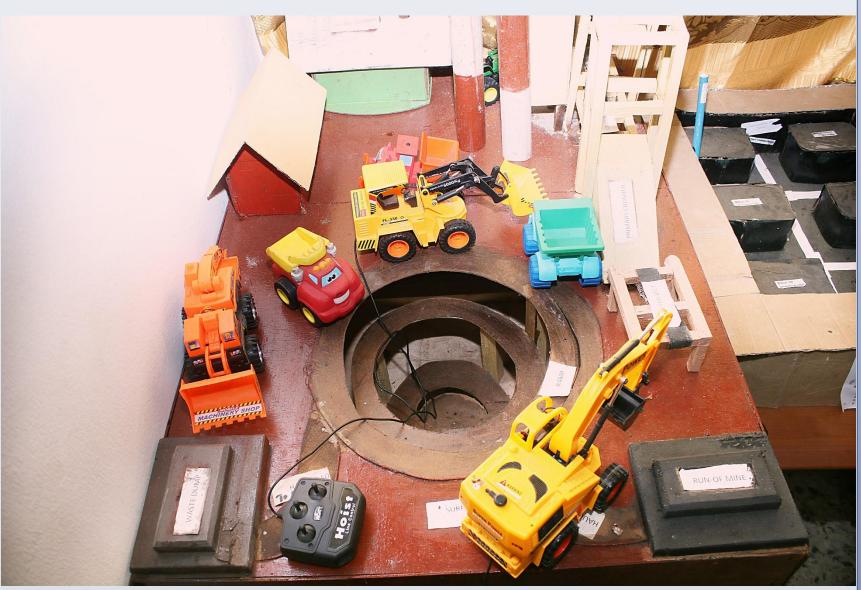


## **ABSTRACT**

Mining is an innovative & Hazardous profession. Thus, it is required that students studying Mining Engineering nnovative skills by developing basic Mining Engineering Models, to be on pile with their peers in top Engineering Department of the University of Liberia is aimed at enhancing the innovative skills of her students. This poster presents innovative Mining Engineering Models developed by students from 1<sup>st</sup> Semester Academic 2016/2017 through 2<sup>nd</sup> Semester Academic 2016/2017.

## THESE MODELS ARE ORDERLY PRESENTED BELOW:

**1.0** An Open Pit Diamond Mine and Associated Facilities



The Fist Mining Engineering Model Developed my Mine 316 Students during 1st, Academic 2016.

Belt Conveyor With Tub for Material Handling in Mines



Developed 2<sup>nd</sup> 2016/2017 By Mine 316 Students

## 3.0 An Open Pit Mining Model With Lighting & Processing **Facilities**



Developed 2<sup>nd</sup> 2016/2017 By Mine 316 Students

0 A Power Electric Rope Shovel Excavator



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

A 120T Mine Dumper



Developed 2<sup>nd</sup> 2016/2017 By Mine 316 Students



**An Operation View of Shovel Excavator & Dumper** 

**Longwall Shearer** 



Developed 2<sup>nd</sup> 2016/2017 By Mine 316 Students

O Slake Durability Apparatus for Abrasive Test of Rocks



Developed 2<sup>nd</sup> 2016/2017 By Mine 316 Students

9.0 Integrated Underground Bore & Pillar Longwall



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

10. An Open Pit shifted to Underground Mine



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

**Underground Bore & Pillar Mine with Ventilation Facility** 



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

12. Hydraulic Jack Used in Oil & Gas Production

Developed 2<sup>nd</sup> 2016/2017 By Mine 400 Students

13. Geothermal Power Plant (a renewable energy source)



Developed 2<sup>nd</sup> 2016/2017 By Mine 400 Students

14. Hydro Power Plant (a renewable energy source)

