

# MINE HYDRO-PNEUMATIC POWER PLANTS BASED ON THE FOUNTAIN OF HERON

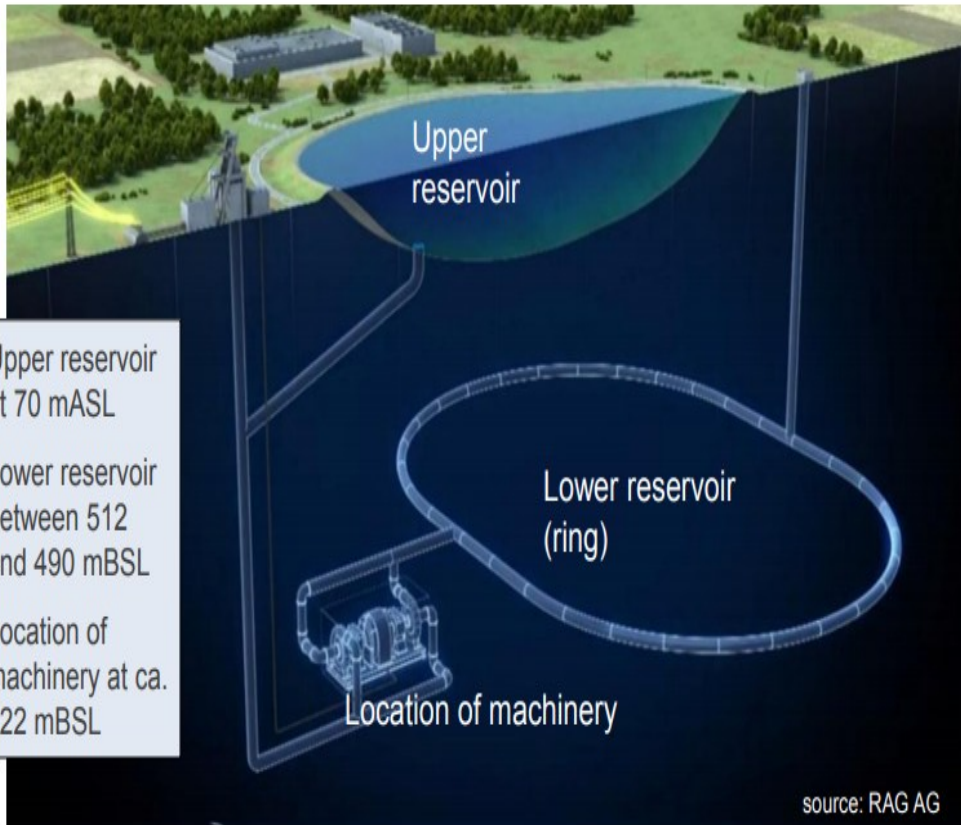
*Danylo Cherevatskyi*

**XXVII МІЖНАРОДНА  
НАУКОВО-ПРАКТИЧНА КОНФЕРЕНЦІЯ  
"ВІДНОВЛЮВАНА ЕНЕРГЕТИКА ТА  
ЕНЕРГОЕФЕКТИВНІСТЬ У ХХІ СТОЛІТТІ"**

# Underground pumped storage hydropower plant (UPSH) according to the classical scheme

(Prosper-Haniel mine project)

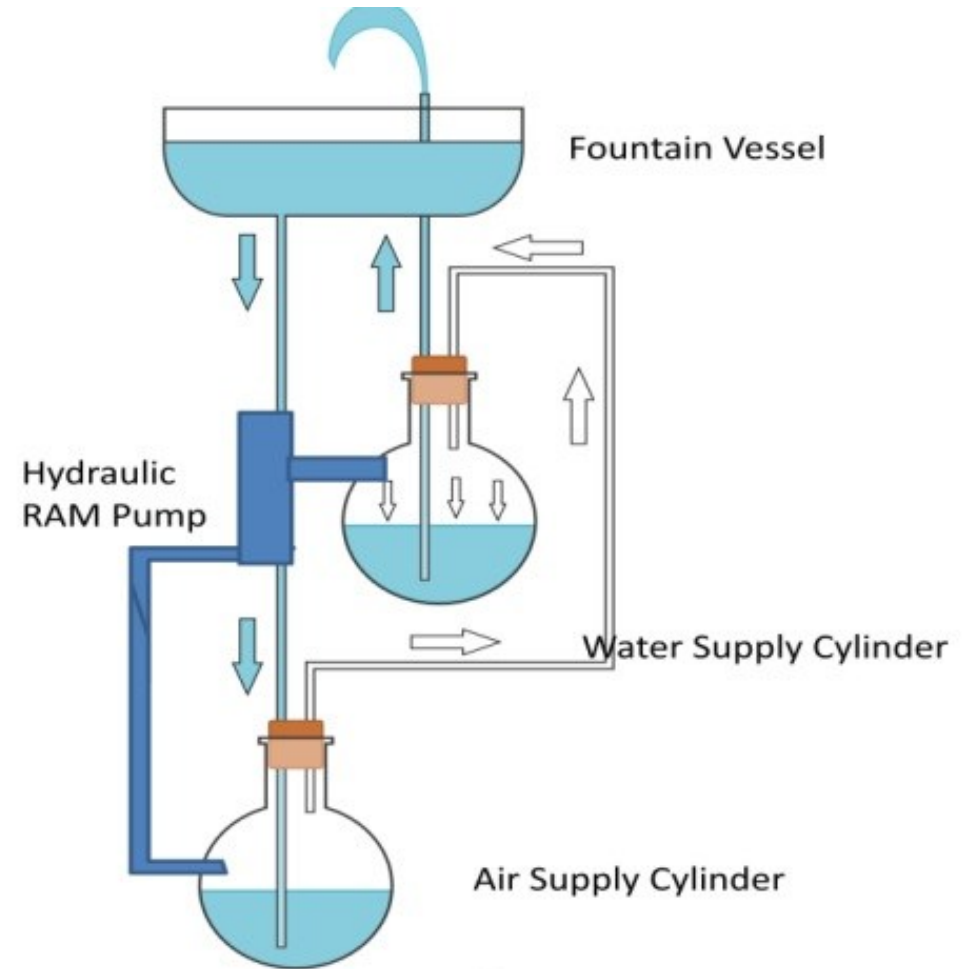
## Concept sketch UPHS



- Upper reservoir at 70 mASL
- Lower reservoir between 512 and 490 mBSL
- Location of machinery at ca. 522 mBSL

# Modified scheme of Heron's fountain

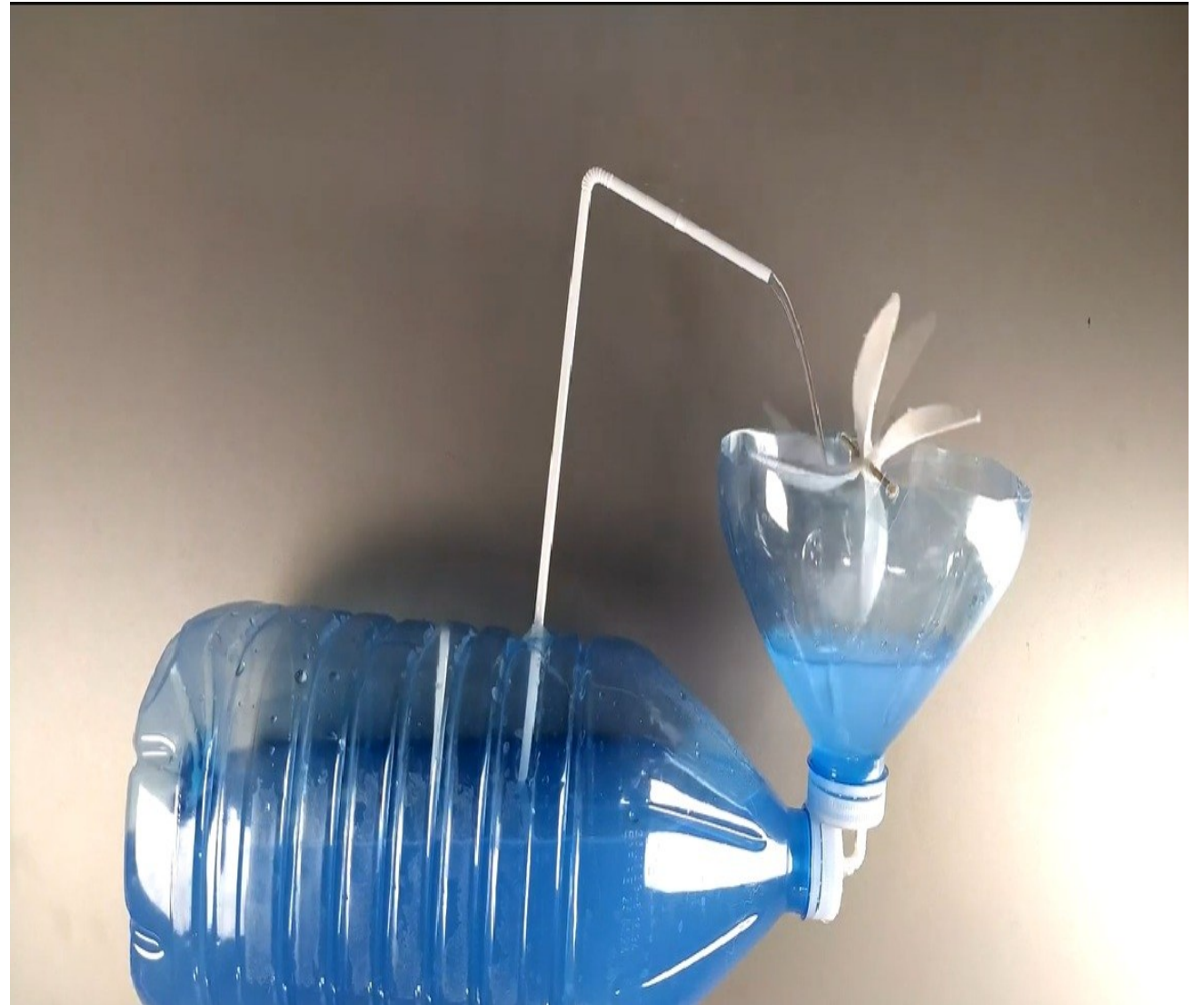
(with Hydraulic RAM Pump)



# A working model of the power plant

## Source:

<https://www.youtube.com/watch?v=rYe0NuP7tcs>



Colleagues, let's  
conduct an  
experiment!

**Source:**

<https://www.youtube.com/watch?v=Sv9JrnnZkLA>



Paul Éluard

- *The earth is blue like an  
orange*