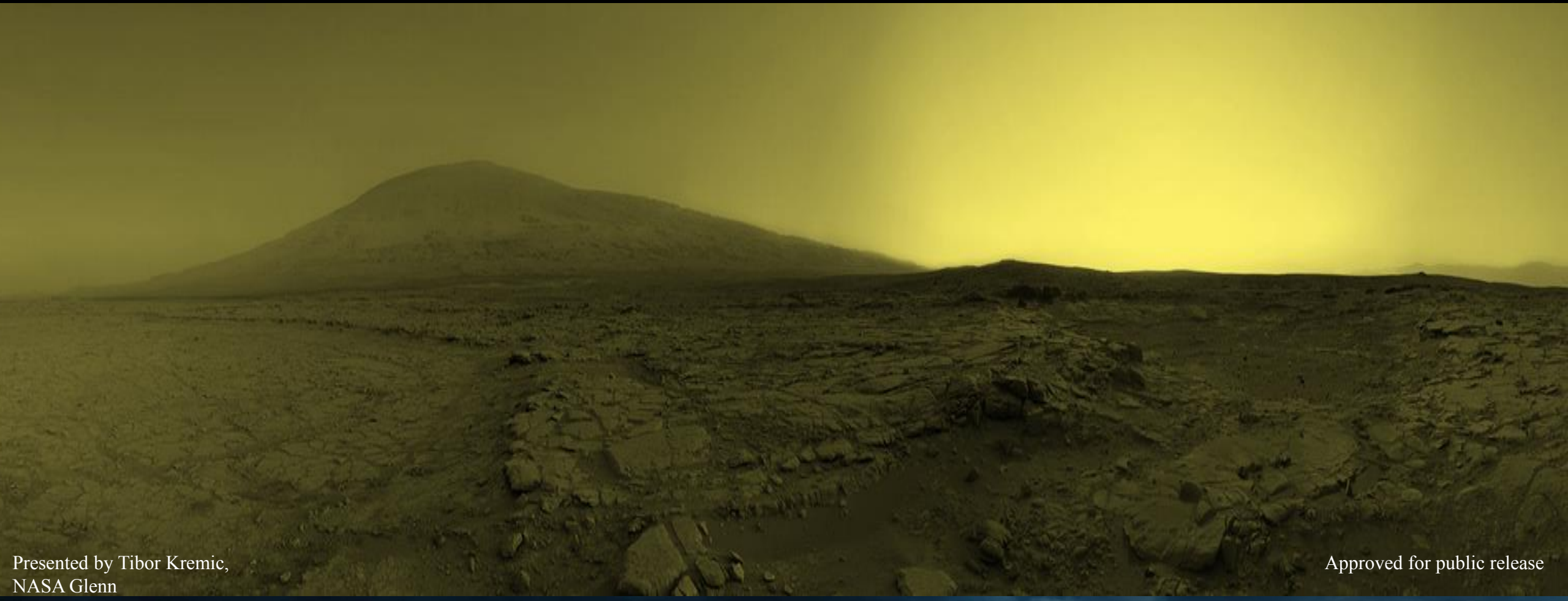


Some Like it Hot !



Why Explore Venus?



Venus

Earth

Layers of Acid Clouds



Continuous Tornado – like winds

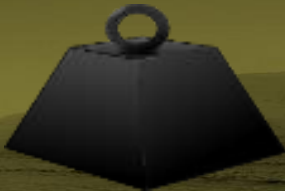


Similar but Sooo.. Different

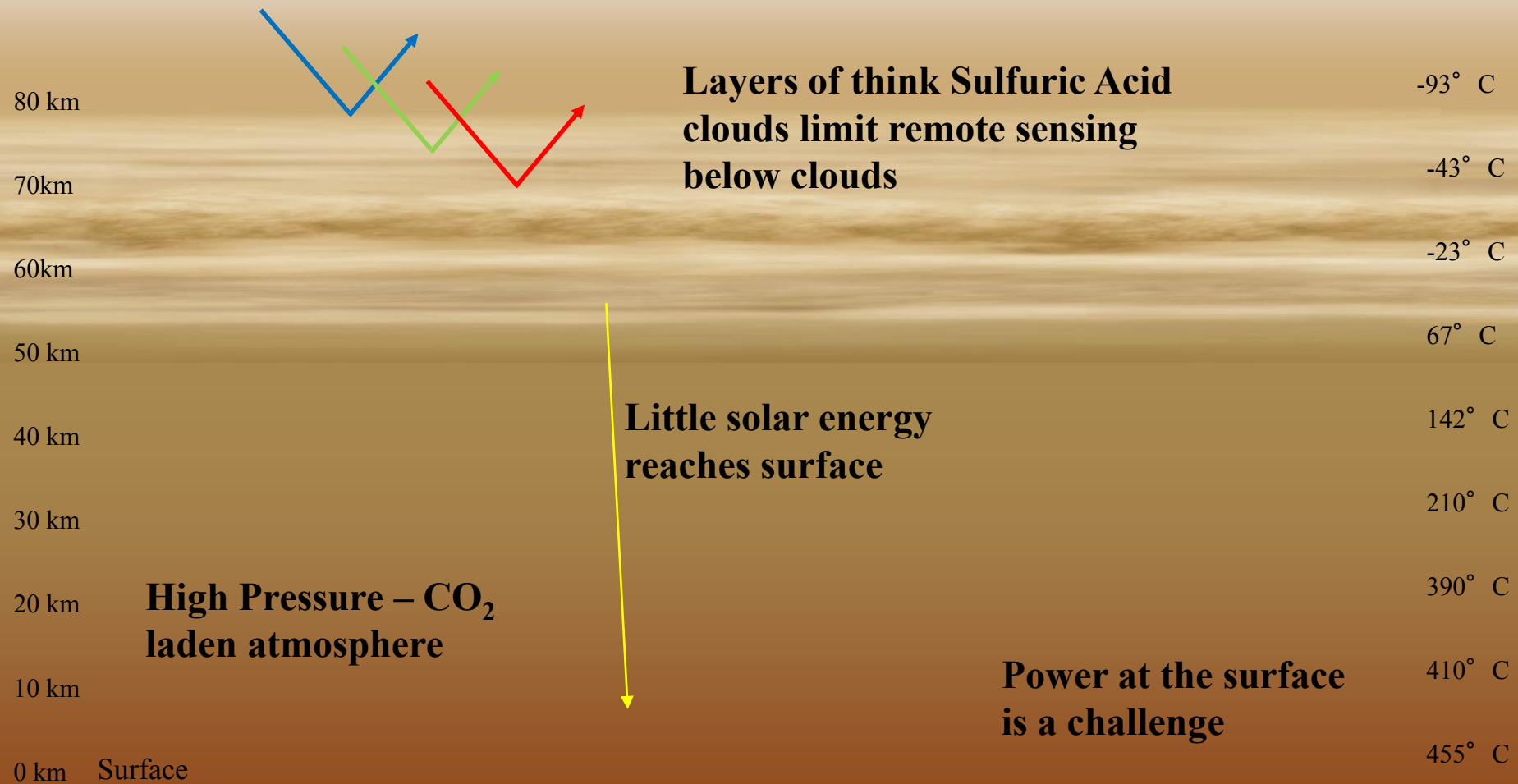
Temps approaching 900° F



Crushing pressure

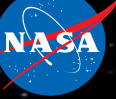


The Unique Challenges of Venus



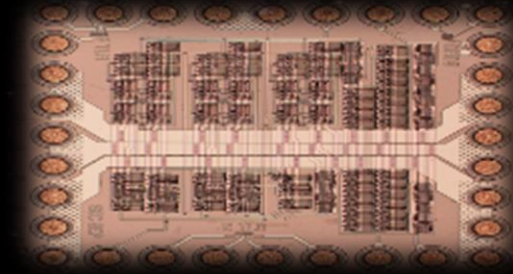
**Extreme temperatures kill
lander electronics and systems**

What is NASA Doing About It?



Developing high temperature systems

- Electronics, sensors, batteries, and more

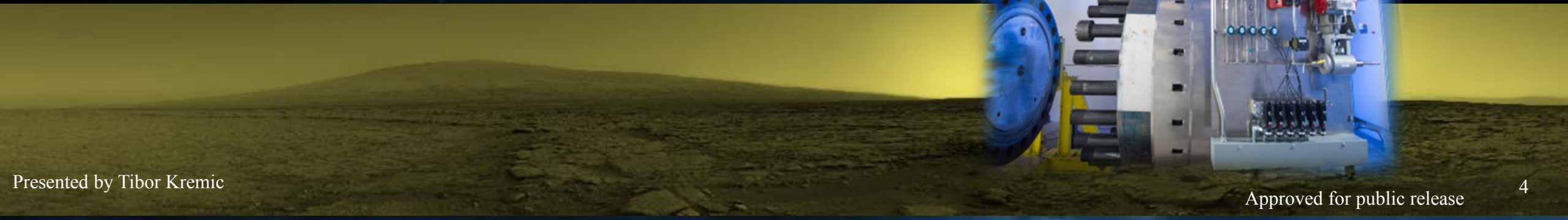
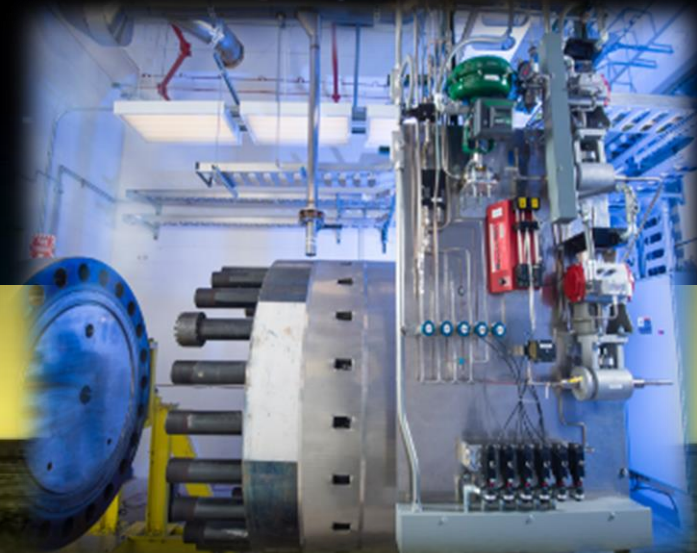


Conducting experiments to better understand the environment

- Know what to look for
- Better interpret data from instruments



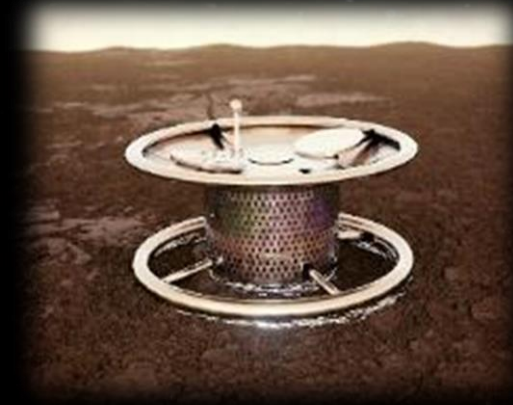
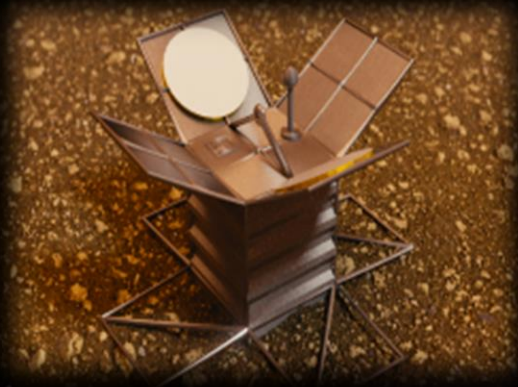
Built Venus simulation capabilities – E.g.
Glenn Extreme Environment Rig



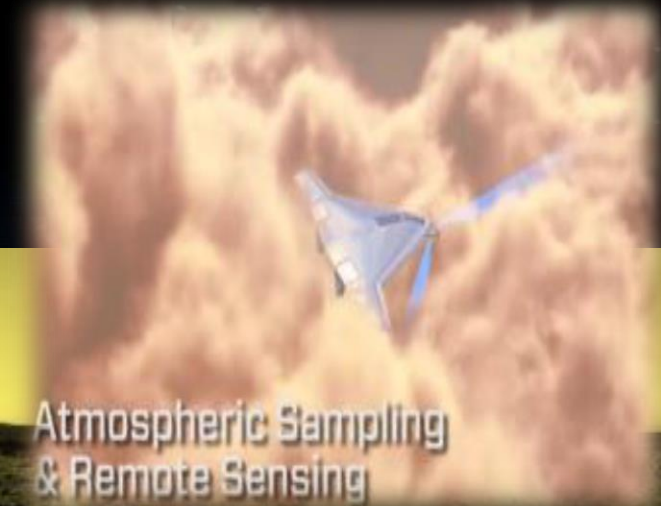
Working Concepts to Explore Venus



NASA Glenn is developing a prototype probe to live on Venus for extended periods



NASA is supporting several studies to develop mission concepts



Atmospheric Sampling
& Remote Sensing