

Welcome to the STEM Conference Balloon Launch!

Mission Objective: NASA plans to launch a crewed mission to Mars by 2035 and they need your help! Your team is invited to propose a pre-cursor Mars mission, one that will provide data for NASA scientists and engineers that can help them design a future crewed mission. You have the opportunity to design a payload (engineering/science experiment) that will be launched to the stratosphere aboard a high altitude balloon. You will receive data and perform analysis as a comparison to the Martian atmosphere.

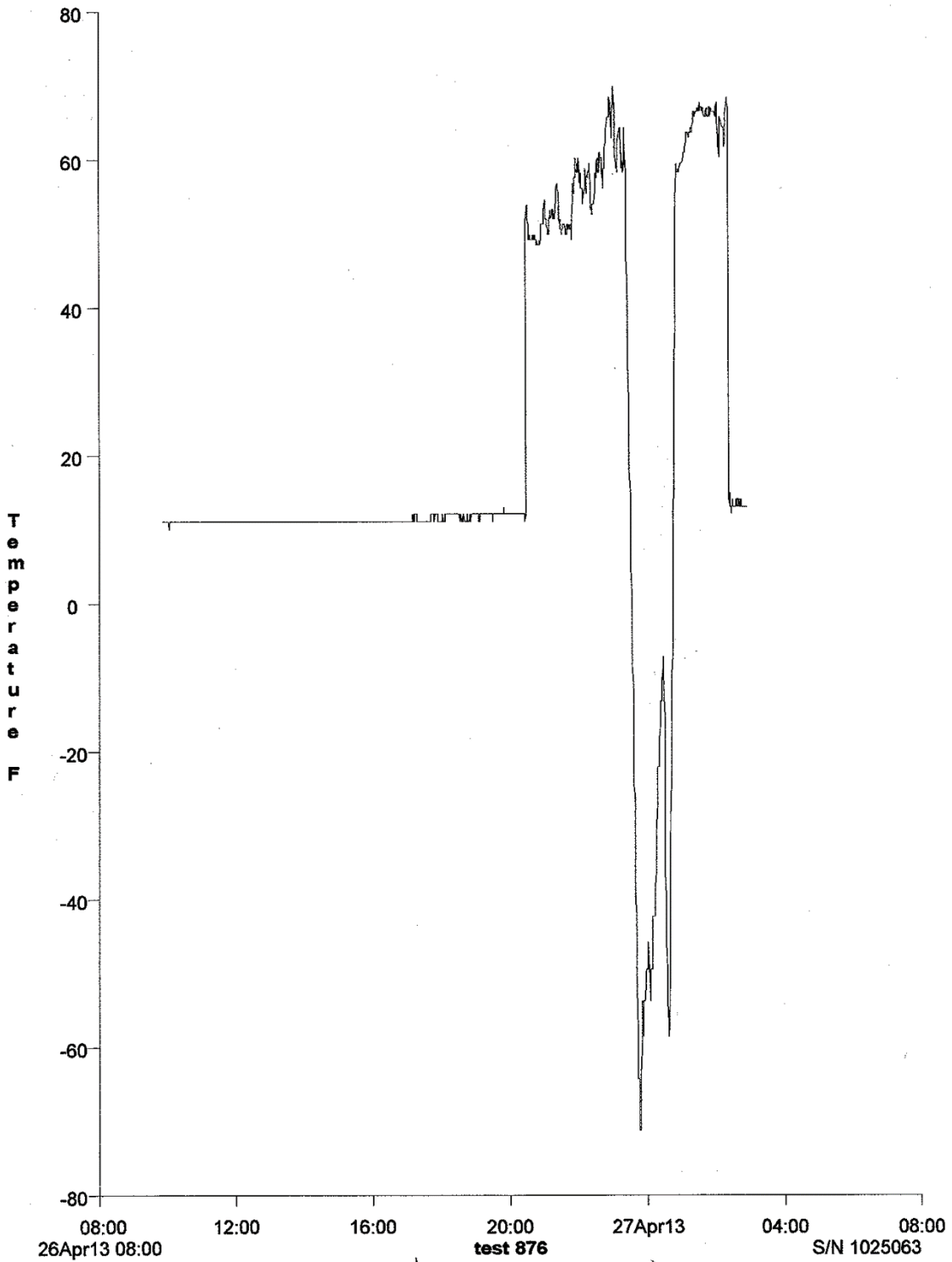
Step 1: In your groups, decide which sensor you plan on launching. You may choose between the **wide-range temperature, relative humidity, and pressure** NeuLog sensors. You may also propose to test an additional experiment. Past examples include bacteria samples, solar panels, plant survivability tests, seed exposure, and remote sensing imagery.

Step 2: Fill out the following information, choosing your assigned variable. Check out blogs.und.edu/nsbc

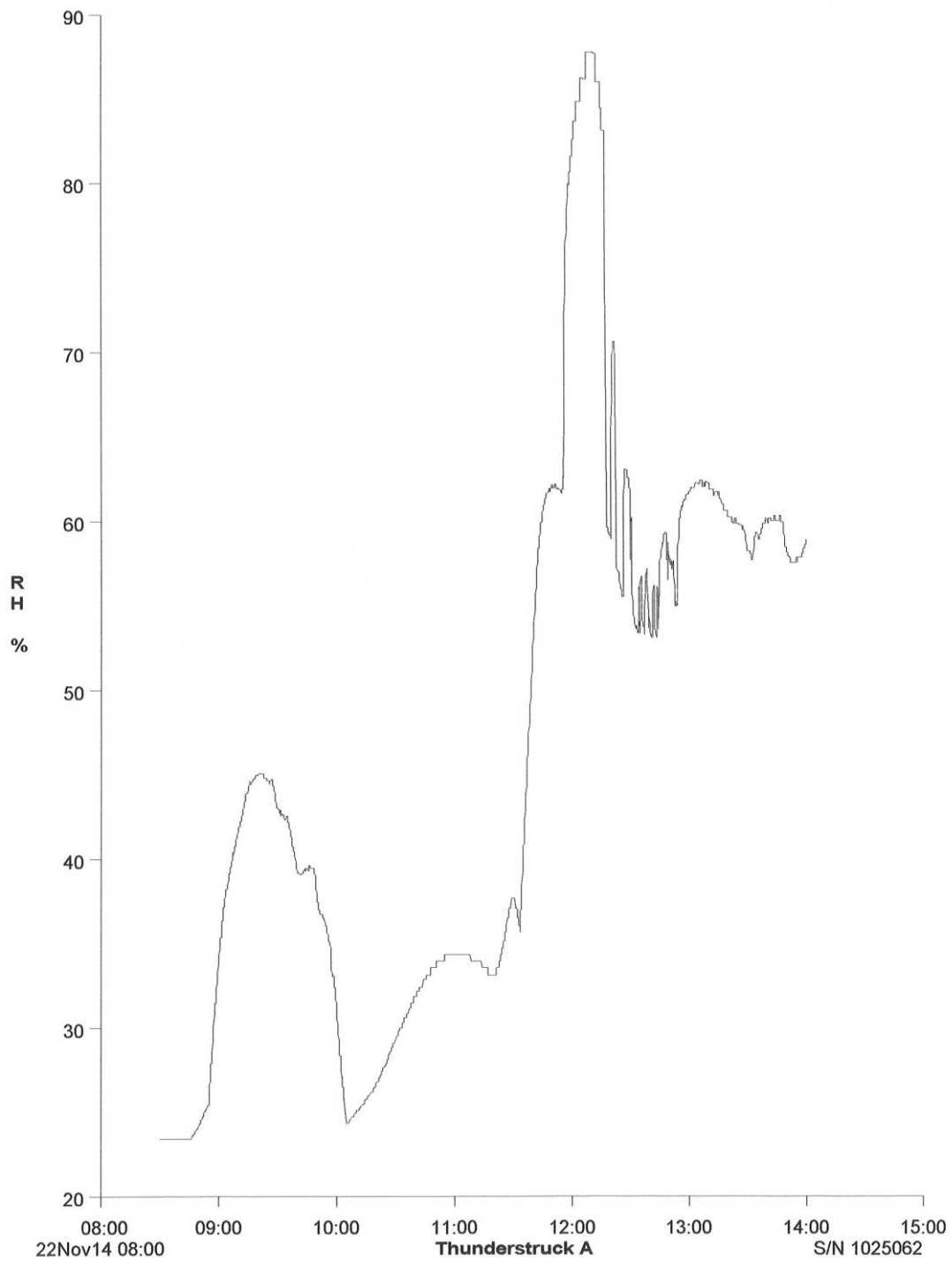
1. Describe the (temperature/pressure/humidity) on Mars.
2. How does Mars' (temperature/pressure/humidity) differ from Earth's?
3. How will studying Mars' (temperature/pressure/humidity) benefit future human exploration?

Step 3: What will your payload look like? Draw a sketch below.

(Consider aerodynamics, color, and string entry points)



Northwood Outside Temp °F



7-BAE
PSI
Pressure
0 atm
ID=1

