MEC516/BME516: Fluid Mechanics I

Chapter 1: Introduction Vapor Pressure

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Department of Mechanical & Industrial Engineering

Chapter 1 Quiz Question

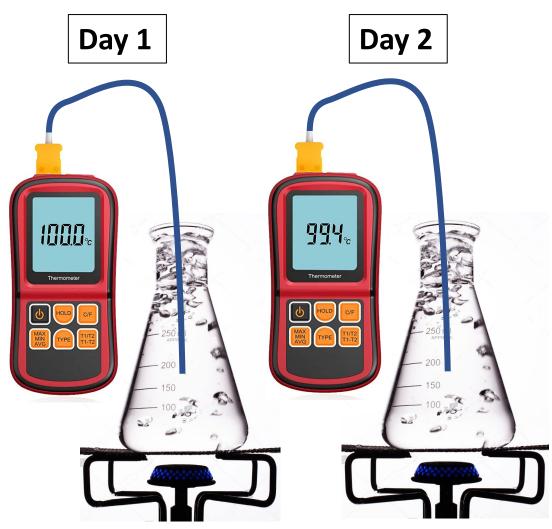
- Research assistant to check the calibration of a thermocouple by boiling water
- Day 1: Measured 100 °C
- Day 2: Measured 99.4 °C

What likely caused the poor "repeatability"?

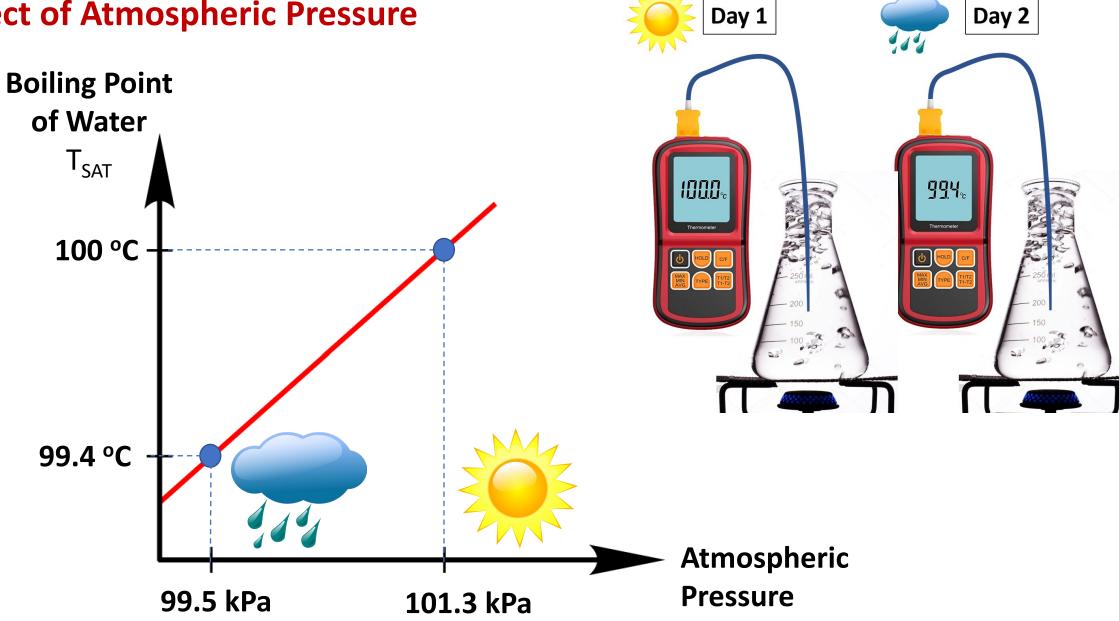
Ans. (a) A change in the boiling point of water

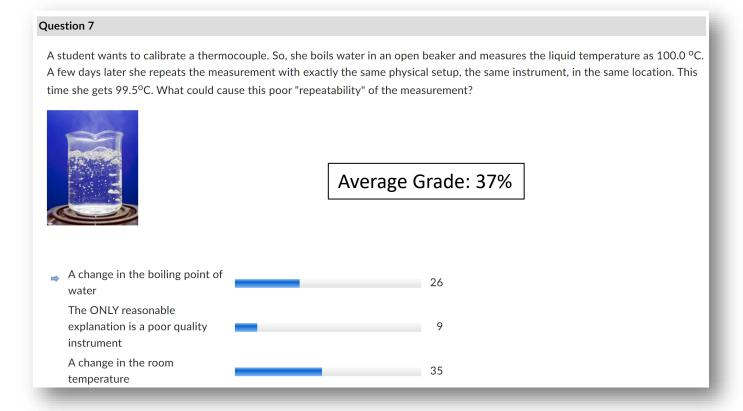
- (b) Must be a poor-quality instrument
- (c) A change in the room temperature





Effect of Atmospheric Pressure



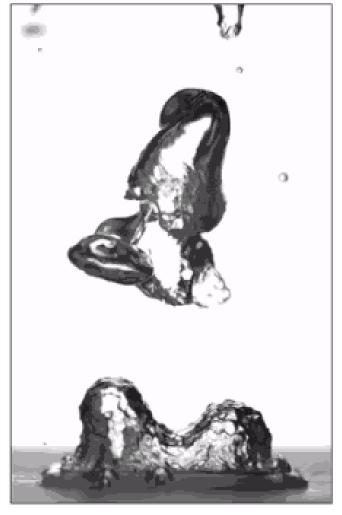


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END NOTES

- All the videos (and pdf downloads) for this course available at: <u>www.drdavidnaylor.net</u>
- Presentation prepared and delivered by Professor David Naylor
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Boiling on a superhydrophobic surface

GIF Credit: Purdue University https://www.purdue.edu