Threats to INTERNAL VALIDITY

I. Threats due to How the Research is Conducted

- A. Procedure Validity and Reliability conducting research accurately & consistently
 - 1. Administering Accurate Measurement Techniques in a consistent manner
 - 2. Treatment Validity and Reliability measuring what we intend to measure
 - 3. Manipulation Checks ensure that treatment is valid and reliable
- B. Controlling for Environmental Influences
 - 1. <u>History</u> changes in the environment external to a study that influences behavior
 - 2. <u>Sleeper Effect</u> any effect that is not immediately apparent but appears over time
 - 3. <u>Sensitatization</u> tendency of initial measurement to influence subsequent measurement
 - 4. <u>Data Analysis</u> improper procedures that result in invalid conclusions

II. Threats due to Research Participants

- A. The Hawthorne Effect change in research participant behavior is due to the fact that they know they are being observed
- B. <u>Selection</u> (self-selection bias) selection of texts or people that influence conclusions
- C. <u>Statistical Regression</u> tendency of people selected on the basis of initial extreme scores on a measurement instrument to **behave less atypically** on the second and subsequent times on that instrument.
- D. <u>Mortality</u> (attrition) differential **loss of research participants** from the beginning to the end of a research study
- E. Maturation internal changes that occur in people over the course of the study (e.g. age)
- F. <u>Intersubject bias</u> occurs when people being studied **influence one another**
- III. Threats due to Researchers researcher influences people's responses
 - A. Researcher <u>Personal Attribute Effect</u> particular characteristics of a researcher influence subject behavior
 - B. Researcher <u>Unintentional Expectancy Effect</u> (Rosenthal or Pygmalion effect) influence subject responses by inadvertently letting them know the behavior they desire; researchers lead participants to behave or respond in particular ways
 - C. Researcher <u>Observational Biases</u> demonstrate of inaccuracies during the observational process <u>Observer drift</u> become inconsistent in criteria used;

Observer bias – research knowledge influences observations

<u>Halo effect</u> – overrate or underrate subjects due to multiple judgments of same person over time