

1.4

Facilitator Slides

- ★ Goals for Session
- ☰ Agenda and Activities
- ⏪ Final Reflection



1.4 Session Goals

GOALS:

Share the work that you are doing on your own as you go through the course

Reflect on your learning

Practice some of the tools that you were introduced to in the course

Get to know others in your lab/class

STRUCTURE:

Will meet every two weeks for 1.5 hours

Large and small group discussions

Reflection activity at the end of each session

Activities and Discussions

TRAGEDIES in the Lab

In Scene 1.4, Dr. Heideberg directs Darren to put grad student Meena Anand in charge of the collaboration under Darren's supervision to help remedy the delays in the collaboration. Take time to discuss the following questions (20 minutes):

- Which elements of the TRAGEDIES do you observe in the scene?
- Which systemic conditions in a lab make TRAGEDIES more likely to occur? Could the conditions be changed?

T	Temptation	"Doing this will look good on my CV"
R	Rationalization	"It's only a few data points and those runs are probably flawed"
A	Ambition	"If we tell a better story, we will get published in a better journal"
G	Group & Authority Pressure	"The PI's instructions don't match the protocol, but they are the senior researcher"
E	Entitlement	"I've worked so hard and I think it works and I need to get published"
D	Deception	"Everyone does it & nobody will find out"
I	Incrementalism	"It's only 1 data point I'm excluding, just this once"
E	Embarrassment	"I don't want to look stupid or incapable"
S	Stupid Systems	"I will submit through my personal email so I don't have to pay another membership charge"

Avoiding Career TRAGEDIES

With your group, discuss the following (10-15 minutes):

Which elements of TRAGEDIES do you see?

- Darren's choices?
- Heideberg's choices?

	Darren	Malcolm Heideberg
T Temptation		
R Rationalization		
A Ambition		
G Group and Authority Pressure		
E Entitlement		
D Deception		
I Incrementalism		
E Embarrassment		
S Stupid Systems		

Better Science by Understanding TRAGEDIES

With your group, discuss the following question (10-15 minutes)

- What are some reasons for delays in obtaining results in a lab, like in the scene?
- Which ones can be solved by putting appropriate protocols and processes in place?
- Which protocols and procedures are particularly useful when working with collaborators?

Lab Manual Discussion Questions

For your discussion, remember that in this scene Dr. Heideberg directs Darren to put grad student Meena Anand in charge of the collaboration under Darren's supervision to help remedy delays with the collaboration.

In small group Discuss the Following (10-15 Minutes):

- What information would be helpful to include in the lab manual about how to assign projects in a lab? Where in the lab manual would you put that info?
- Would it be helpful to have information that relates to working with collaborators in a lab manual? What information would be helpful and where would you include it?