May 2020

LabChemistry_IS2_20160413_Camera1_Seg12.pdf

Setting: Chemistry lab
Participants: S1 (female, dirty blonde hair, pony tail) IS2: (male, mic on jacket), S2 (female, black attire), S3 (male, dark hair, hard to see. 5:00) S4 (female, off screen 5:52), S5 (male off screen 6:30), S6 (female off screen 6:34), S7 (male, off camera), S8 (female, short black hair jeans, white shoes)S9 (male, tall, blue jeans), S10 (male, asian tall), S11 (male off screen)10:55, S12 (male off screen 11:28) S13 (male white sweater, black bag)

0:00

XXX S1: (look) like this
XXX IS2: ok
XXX S1: and it had lights↑ and like
XXX you can control [the wind
XXX IS2: [oh:
XXX the temperature,
XXX [the wind all of the conditions
XXX S1: [the temperature the wind (.) the light,
XXX IS2: ok=
XXX S1: =exactly
XXX and then I would [grow I-I'd germinate↑ like
XXX two hundred fifty plants
XXX IS2: [you just
XXX S1: and then I'd take them all out and grow them in individual
XXX pots
XXX and then when it was time to do the research
XXX I did like (.) uh
XXX two: trials
XXX like two replicas,
XXX and I had (.)the invasive and the natives↓ by themselves,
XXX and then the invasive and natives surrounded by
XXX two four six,
XXX of each other,
XXX and inter: (.) specifi- you know what I mean?=
XXX IS2: =uh huh
XXX S1: so
XXX [so I tested the-
XXX IS2: [is- is the lab- is the lab in the life science?
XXX S1: yea life sciences=
XXX IS2: =life science
XXX S1: yea:
XXX and I did it in like the green house,
XXX and the growth chambers,

XXX and I had so many plants
XXX like by the time I was done,
XXX IS2: but normally I think it is related to the hormones
XXX I-I mean the plant's hormones
XXX S1: hormones?
XXX IS2: uh huh
XXX S1: well they te- there's not enough evidence for-
XXX IS2: but
XXX w-what kind of thing do you need to-
XXX I mean the parameters do you need to test?
XXX S1: to test?
XXX IS2: uh huh
XXX S1: well wha- I te- basically,
XXX like it's- it's hard with plants to quantify stuff
XXX [you know what I mean,
XXX IS2: [yea
XXX S1: so when I'm (.) testing competition,
XXX the way I do it↑ is by pulling them all out at the base
XXX so you cut, and you grab a whole plant
XXX and you put it in a oven
XXX and you completely dry it out,
XXX you weigh the biomass.
XXX and whichever one has more biomass,
XXX they're higher competitors
XXX IS2: oh ok=
XXX S1: =you know what I'm saying
XXX IS2: ok it's just based on the biomass
XXX S1: yea [and then you do these statistics
XXX IS2: [ok
XXX S1: like these-
XXX cus that's the only way you can do it in ecology
XXX you take your data,
XXX you put it [((unclear))-
XXX IS2: [yea it's hard to quantify.
XXX S1: you do- you do like regressions
XXX in- in ecology.
XXX and then you just look at uh: slopes
XXX and if you have a-
XXX you make your regression
XXX IS2: mhm=
XXX S1: =and you have all your points
XXX right,
XXX IS2: mhm=
XXX S1: =and you do like your best fit line,
XXX if you have a steep (.) slope,

XXX you as- you assume
XXX there's a lot of competitive neighbors
XXX but if you have a shallow slope then it's not as
XXX (competitive)°
XXX so that's how we like quantify them°
XXX it's harder cus it-
XXX nothing is li:ke
XXX it's not like this
XXX it's not like exact
XXX and nothing's ever perfectly controlled
XXX IS2: yea=
XXX S1: =cus I can't control the soil
XXX you know?
XXX IS2: yea lots of inuncertainty
XXX S1: yea
XXX IS2: I mean=
XXX S1: =so
XXX IS2: unpredic-
XXX S1: I mean I try to control what I can
XXX but (.) I can't stop like a bug from going in it
((chuckle))
XXX IS2: ((chuckles))
XXX S1: (like) stuff yea
XXX IS2: yea are you done↑ for this project?
XXX S1: I'm done [right now
XXX IS2: [ok
XXX oh you are going to post for this project?=
XXX S1: =yea:
XXX IS2: [ok
XXX [and then I'm going um
XXX the weekend like April twenty [((unclear))
XXX IS2: [((unclear))
XXX ok
XXX S1: [I'll go
XXX IS2: [it's- is is approaching
XXX S1: huh?
XXX IS2: I mean it's-
XXX S1: a conference?
XXX IS2: uh yea
XXX it's approaching right,
XXX S1: it's like a [national
XXX IS2: [April April twenty
XXX S1: April twenty second
XXX IS2: April twenty second
XXX S1: yea

XXX and then I'll go to that
XXX and I'll show them
XXX and then I'll ask them what can you suggest,
3:00
XXX ((S2 walks and looks at them))
XXX and when I get back I'm gonna redo the whole research
XXX with their suggestions
XXX IS2: oh [ok
XXX S1: [cus I'm looking for what they have to say like
XXX IS2: ok
XXX S1: [maybe they did something,
XXX IS2: [ok
XXX you just wanna get some feedback.=
XXX S1: =yea: like maybe they're like oh you should try this method
XXX I'm gonna then like repeat the whole: research
XXX in like the next month
XXX IS2: ok cool
XXX S2: I have a question
XXX ((IS2 and S2 walk to the side))
XXX so for the ester↑ port,
XXX it says that you have to find the theoretical yield.
XXX right,
XXX IS2: (.1) beta carotene?
XXX S2: no no the ester one
XXX it's- I just for- it's for next week
XXX but it says you have to find the theoretical yield in
XXX grams right,
XXX IS2: uh ((affirmative))
XXX S2: so what they do is since the alcohol is the limiting
XXX reagent.
XXX IS2: yea=
XXX S2: =take the number of moles of alcohol
XXX IS2: yea
XXX S2: and it's a one to one ratio
XXX IS2: yes
XXX S2: so you find the num-
XXX wait so it's point five it's gonna be like
XXX point fi- oh five moles of the alcohol right,
XXX (.2) about like
XXX IS2: [yea
XXX S2: [if they use the exact amount right,
XXX IS2: yea
XXX S2: but how would you convert from (.) moles,
XXX to grams?
CLF IS2: [but we have the molecular weight=

XXX S2: [((unclear))
XXX =they don't
XXX they don't- uh they don't give you the molecular weight of
XXX the ester.
CLF IS2: >I think I calculate them<
XXX S2: how do you calculate the molecular weight [of ester?
CLF IS2: [yea
CLF you have the: mole- uh you have the-
CLF I think they should- er >draw the molecular-< uh
CLF I mean the structure them,
CLF and the (.) uh:
CLF [you know count them
XXX S2: [can I google it?
XXX IS2: how much (.) no
XXX how much carbon, (.) how much oxygen,
XXX how much
XXX [you know hydrogen,
XXX S2: [((unclear))
XXX IS2 and add them together
XXX S2: ok that's (.) cus you need the molecular weight.
XXX right?
XXX [((unclear))
XXX IS2: [yea yea sure
XXX >definitely<
XXX if you want to convert the [most to the [gram
XXX S2: [yea°
XXX [yea°
XXX IS2: definitely you need [um molecular weight
XXX S2: [ok
XXX that's good
XXX ((both walk away off screen))
XXX ((no dialogue 4:28-5:00))
5:00
XXX S3: excuse me
XXX IS2: yea?
XXX S3: (my↑) heating mantle↑ won't (.) unplug ((unclear))
XXX IS2: oh:
XXX >lemme<
XXX S3: yea
XXX ((IS2 tinkers with heating mantle from 5:10-5:27))
XXX IS2: ok so if you are use (.) too much force
XXX I think it will- this will
XXX >you know< broke into part
XXX S3: yea
XXX IS2: go to the stockroom

XXX and ask for help ((laughs))
XXX S3: ok
XXX thank you
XXX IS2: because I- if I- if I you know mess it up
XXX I need to pay ((laughs))
XXX S3: ok yea
XXX IS2: go to the stockroom
XXX ((S3 walks away))
XXX ((IS2 walks off screen))
XXX any questions?
XXX S4: hm
XXX IS2: this is (Bethany) ((lab partner?))
XXX this is should be done,
XXX S4: yea=
XXX IS2: =before you come to the lab ((scolding))
XXX S4: I know I know°
6:00
XXX IS2: ok,
XXX S4: I know [I jus- didn't have-
XXX IS2: [this is the last time
XXX ok,
XXX S4: I didn't remember what it looked like
XXX ((pause))
XXX won't do this next time ok?
XXX S4: ok
XXX ((no dialogue 6:14-6:31))
XXX S5: what happen°
XXX IS2: what happen to you?
XXX S6: ((unclear))
XXX this is due today right?
XXX S5: [yea
XXX S6: [yea
XXX IS2: it should be finish
XXX S6: I know ((laughs))
XXX IS2: oh you- you-
XXX you- you-
XXX S6: we're doing it now ((wanting to laugh))
XXX we'll give it to you by the end of the ((laughs))
XXX IS2: ok (.) so:
XXX S5: yea I'm finishing it now=
XXX IS2: =don't- don't (.) do this next time ok,
XXX S5: [yea
XXX S6: [yea
XXX IS2: it should be do- d- in- before you (.) come into the lab
XXX S5: [alright

XXX S6: [yea
XXX IS2: ok
XXX ((pause))
XXX IS2: both (.) done?
XXX S7: ((inaudible))
XXX IS2: ((laughs))
XXX S7: ((unclear))
XXX IS2: ok
XXX so you can (.) get a (all out,)
XXX remove the heating mantle it should be (.)
XXX cool fast
XXX ((pause))
XXX S2: you don't [have the (parafilm) right?
XXX IS2: [did you get the: stir bar out? ((to S8))
XXX S2: yea I got it out
XXX IS2: ok ((s8 leaves))
XXX S2: (do I have to parafilm it?)
XXX IS2: so according to the (manual) should be done.
XXX but (.) [I don't think so
XXX S2: [yea but we don't have
XXX we're running out of (parafilm)
XXX IS2: (taurine)
XXX I think taurine will dissolve the parafilm)
XXX S2: yea (tollium)
XXX wait (tollium) would have dissolved the parafilm ((to S9))
XXX S9: (uh no no no no I'd stick with) ((unclear))
XXX S2: no [(tollium) dissolves plastic ((annoyed, matter of
XXX fact-ly))
XXX IS2: [(tollium) too
XXX yea yea
XXX S9: it's ok
XXX either way [((unclear))=
XXX IS2: =just (.) I don't- don't use the parafilm
XXX ((S9 and S2 are talking, unclear))
XXX IS2: it would dissolve a little bit
XXX but yea
XXX S2: very hard to clean up
XXX IS2: hm?
XXX S2: it'll be very hard to clean up [((unclear))
XXX IS2: [yea
XXX S9: ((unclear))
XXX ((IS2 walks away while S9 and S2 are talking))
XXX IS2: done? ((to a student working s10))
XXX oh not done
XXX S10: ((unclear))

XXX IS2: ok
XXX S10: ((unclear))
XXX IS2: ((speaks in Chinese))
XXX S10: ((responds in Chinese, both laugh))
XXX ((speaks Chinese from 8:24-10:45))
9:00
XXX ((IS2 walks away))
XXX IS2: (Audrien)
XXX S11: yes
XXX IS2: are you happy?
XXX S11: ((unclear)) yea
XXX there's a concert tonight.
XXX IS2: a concert?
XXX S11: yea
XXX IS2: art?
XXX S11: ye- um
XXX u:m
XXX IS2: in the Staller:- Staller:,
XXX S11: no not in Staller
XXX in- in the: stadium
XXX IS2: the stadium
XXX S11: there's a big concert yea
XXX IS2: [ok
XXX S11: [two- the music artist
XXX IS2: do you have free food?
XXX S11: no (.) just [just
XXX IS2: ((laughs)) [just listen right?
XXX S11: yea yea yea
XXX exactly
XXX IS2: are you going too?
XXX S11: yea yea
XXX [you need to pay twenty dollars
XXX IS2: [oh
XXX oh have to pa:y ((rising and falling intonation ↑↓))
XXX S11: yea
XXX IS2: no way I won't come.
XXX S11: ((laughing)) no way
XXX no way°
XXX ((pause))
XXX IS2: uh
XXX did you get the stir bar out?
XXX S12: huh?
XXX IS2: stir bar↑ (.) out of the rbf
XXX S12: ok
XXX IS2: re- return to the:

XXX ((IS2 seen walking on camera and away from student))
12:00
XXX ((no dialogue 11:32-12:04))
XXX still wait↓ how much minutes do you need (.) to wait?
XXX four minutes? ((pause))
XXX done? ((camera turns to face IS2 and student S13))
XXX did you get the: stir bar, (.) out of the rbf?
XXX no
XXX oh you should have
XXX ((S13's responses not audible))
XXX ((S13 looks in cabinet))
XXX yea because (.)
XXX uh:
XXX you need to return this, ((touches machine))
XXX and also the stir bar in the rbf.
XXX to the stockroom
XXX S13: (how do I get it back?)
XXX IS2: uh: I-I-I can ((unclear))
XXX S13: ((returns to business))
XXX IS2: good
XXX ((walks to S2))
XXX can you help? ((points to student S13))
XXX S2: yea=
XXX IS2: =that guy to get the (.)
XXX S2: which guy?
XXX IS2: ((points at S13))
XXX uh sitting here
XXX S10 what does that do? ((pointing off screen))
XXX IS2: huh?
XXX S10: what is that-
XXX what are those two sticks for?
XXX IS2: to get the: stir bar out of the-
XXX [it's uh just a mag- mag- magnet yea.
XXX S10: [((unclear)) ((nods))
XXX S2: do we have any- did we run out of paper towels?
XXX ((walking by))
XXX IS2: ((looks around))
XXX S2: here
XXX let's just use a glove