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LabChemistry_IS2_20160330_Camera1_Seg04.pdf

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Participants: IS2 (ta, glasses, white coat), S1 (female student), S2 (female student), S3 (female student), S4 (male student), S5 (male student), S6 (male student), S7 (other ta, female), S8 (male student, tall with slight beard) S9 (other ta, male), S10 (female student), S11 (male student)

Context: IS2 is walking around helping students with their chemistry lab.

0:00

xxx ((pause))

0:12

xxx IS2: so guys uh:
xxx when you do the (reflux),
xxx make sure the: solution is (boiling).
xxx if it is not (boiling) enough uh:
xxx raise the uh voltage.

0:27

xxx ((pause))

0:56

xxx are you tired?
xxx S1: a little bit. ((laugh))
xxx IS2: you can- you can sleep.
xxx S1: I don't think that's a good idea.
xxx IS2: (ah okay to-).
xxx ((pause))
xxx S1: ah: thank you so much!
xxx IS2: yep. ((laugh))

1:12

xxx ((pause))

1:27

xxx hi uh:-
xxx ((IS2 speaks in Chinese with students))

1:41

xxx ((pause))

2:13

xxx S2: so-
xxx IS2: do you know how to do: calculations?
xxx S2: so you said [(it was) um.
xxx IS2: [mhm.
xxx S2: we have to take (.) the grams per mole right?
xxx ((mumbling)) (so grams-) grams grams
xxx and then the-

xxx IS2: so basically what you need to do is.
xxx can I write [here?
xxx S2: [yeah yeah yeah of course.
xxx IS2: which acid did you use?
xxx S2: [uh.
xxx IS2: [this one uh ((undecipherable)) [acid right?
xxx S2: [((undecipherable)) acid.
xxx IS2: so uh we have the equation for the:
xxx ((pause))
xxx and the-the mass is uh equals the:- the.
xxx m: molecular weight right?
xxx S2: yeah.
xxx IS2: molecular weight times the mole.
xxx right?
xxx so basically, (.) how much mass you need to use for the
acid
xxx is-
xxx you have the:-
xxx because you need (to) check here,
xxx you-you need to use acid for the point ones (more),
xxx S2: mhm.

2:59

xxx IS2: so this is point one more, and the molecular weight for the
xxx acid is [uh: seventy four.
xxx S2: [seventy four.
xxx IS2: and you've got this (math) right?
xxx S2: so it's [((undecipherable))
xxx IS2: [but for the- but (too) you need to got the volume,
xxx so: you need to divide it by the density,
xxx so the density here is the:
xxx S2: point nine nine.
xxx IS2: okay.
xxx and then that.
xxx and you've got the volume okay?
xxx S2: yeah.
xxx IS2: for the acid.
xxx okay?
xxx so this is (the) whole calculation.
xxx for the al- uh: for the ((undecipherable)),
xxx uh you need to weigh it.
xxx so you don't need to know the-
xxx you need to- you don't need to get the volume you just get
xxx the
xxx uh mass it's enough.
xxx so for the alcohol- so because it- if you check with the:

xxx here,
xxx so which is- uh point,
xxx S2: zero-.
xxx IS2: zero five.
xxx and times the:
xxx S2: molecular weight.
xxx IS2: [okay (is it)
xxx S2: [which is a- here it would be this one.
xxx um
xxx IS2: ((undecipherable))?
xxx S2: yeah.
xxx IS2: seventy four right?
xxx S2: yeah.
xxx IS2: seventy four okay then you've got amount of the alcohol.
xxx S2: so (I'm getting) this amount right now [from the stockroom
xxx IS2: [yeah just-
xxx S2: right?
xxx IS2: yeah i- m: uh:
xxx so
xxx yes. (.) and you just tell them which alcohol you are going
xxx to use,
xxx S2: uh huh.
xxx IS2: and they just give them [to you.
xxx S2: [oh okay.
xxx IS2: a:nd right now so- so just go to the stockroom right now.
xxx S2: okay.
xxx IS2: and got the alcohol,
xxx S2: okay.
xxx IS2: and uh weigh (.) (several) of them.
xxx so for the acid, you need to weigh the volume, from the
xxx ((undecipherable)).
xxx S2: oh.
xxx IS2: okay? and for the alcohol.
xxx so: basically you- you got the vial.
xxx S2: [mhm.
xxx IS2: [and uh it contains the alcohol right?
xxx S2: [yeah.
xxx IS2: [so you need to weight the total amount.
xxx then you ((undecipherable)) all of them and you weigh it
xxx again,
xxx do the subtraction.
xxx and you know how much y-you have transferred out of the
xxx uh b- [uh uh- out of the vial.
xxx S2: [okay.
xxx IS2: okay?

xxx S3: [can you just double check to see (((undecipherable)))]
xxx IS2: [yeah? [okay sure
xxx ((pause))
xxx uh:
xxx so comes in the bottle,
xxx and then come out of the- comes out of the: top,
xxx so:
xxx did you add the (boiling) stone?
xxx S3: yes.
xxx IS2: okay.
xxx and acid?
xxx S3: [yes.
xxx IS2: [sulfuric acid?
xxx S3: yes.
xxx IS2: okay.
xxx so: did you turn (.) this on?
xxx (.2)
xxx oh it's good.
xxx (.2)
xxx yeah it's good
xxx S3: okay.
xxx IS2: so: maybe after twenty minutes?
xxx so ten minutes? maybe,
xxx if it is not (boiling) enough,
xxx just raise a little bit.
xxx S3: okay
xxx IS2: okay make sure it is (boiling)
xxx S3: okay.
xxx IS2: because (boiling) means (.) reaction.
xxx (if it's) not (boiling),
xxx no reaction between the acid and the alcohol.
xxx S3: oh: [(makes-)]
xxx IS2: [okay?
xxx S3: okay thank you.
xxx IS2: yep.
xxx S4: um [(sorry can you help me with my) ((undecipherable))]?
xxx IS2: [yep? (.) sure sure.
xxx ((pause))
xxx S4: I opened up this (thing) and it just (.) spurted out.
xxx IS2: oh really?
xxx S4: yeah.
xxx IS2: so:.
xxx S4: yeah I don't know why.
xxx IS2: basically you need to turn this off,
xxx and uh.

xxx ((pause))
xxx probably because the f:low rate is too [high right?
xxx S4: [((undecipherable))
xxx IS2: so basically you need to do is
xxx uh:
xxx this is for the water.
xxx and this is- oh this is for the water [okay?
xxx S4: [(yeah)
xxx ((undecipherable)) just (.) do a-
xxx IS2: a little bit.
xxx so change here. (.) adjust here.
xxx S4: okay.
xxx IS2: did you adjust here?
xxx S4: i- (.) uh (.) yeah.
xxx IS2: don't change [here.
xxx S4: [okay.
xxx IS2: uh: just turn a-a little bit o-on.
6:01
xxx S4: okay.
xxx IS2: and uh.
xxx ((pause))
xxx so,
xxx uh: th-th-
xxx that water get uh get in (.) your-
xxx S4: I don't know.
xxx ((pause))
xxx IS2: make sure it is dry if-
xxx ((pause))
xxx okay it's good.
xxx S4: it's fine right?
xxx IS2: yeah.
xxx S4: cause there's (.) ((undecipherable)) the water (goes in
for)
xxx into it right?
xxx IS2: yeah, sure.
6:30
xxx ((pause))
7:40
xxx yep (everything's) good.
xxx S5: okay.
xxx IS2: just turn this on,
xxx S5: (mhm).
xxx IS2: and uh wait until it is boiling,
xxx S5: m.
xxx IS2: if it is not boiling, and the- increase a little bit.

xxx S5: okay.
xxx IS2: okay?
xxx S5: okay.
xxx IS2: so basically:, it's right.
xxx S5: okay.
xxx IS2: so- so right now you need to do is set- set up for the:
xxx separate-separator funnel.
xxx S5: mhm.
xxx IS2: and uh: also clean a: a vial, for next week.
xxx S5: okay thank you.
xxx ((pause))
xxx IS2: is it boiling?
xxx oh! (why) got the red (.) color?
xxx (.3)
xxx S6: (is it supposed to be)?
xxx IS2: .hhh
xxx I haven't seen this last semester.
xxx (.2)
xxx did you add the right uh: (sulfuric) acid?
xxx S6: yeah. twenty five right?
xxx (.2)
xxx IS2: yeah.
xxx S6: yeah.
xxx should I stop it?
xxx ((pause))
xxx IS2: it's okay I think it's okay so you add the right acid
xxx ((undecipherable)) the: [alcohol right?
xxx S6: [(uh:)
xxx yeah so the-
xxx IS2: did you add anything else?
xxx S6: (I'm thinking) two (.) methyl ((undecipherable)) acid
xxx so I used ((undecipherable)) acid and two methyl
xxx ((undecipherable)).
xxx IS2: m:.
xxx S6: ((undecipherable)) right?
xxx IS2: mhm.
xxx S6: okay.
xxx and then I put that- I just put twenty drops of um
xxx (sulfuric) acid.

9:00

xxx IS2: did you wash: the (.) rbf [before
xxx S6: [yeah I washed it
xxx IS2: you washed it?
xxx S6: yeah.
xxx IS2: how do you wash it?

xxx S6: (with) acetone.
xxx ((pause))
xxx IS2: with acetone?
xxx S6: yeah.
xxx IS2: and uh:
xxx S6: yeah.
xxx and that's pretty much all I did.
xxx IS2: just note- uh: ((undecipherable)) not too much a-a-acetone
xxx before you add the acid and the: alcohol.
xxx S6: [((undecipherable))
xxx IS2: I mean- did you wait until it's dry?
xxx S6: ((undecipherable))
xxx IS2: oh okay.
xxx S6: ((undecipherable))
xxx IS2: okay it's fine.
xxx S6: it's fine?
xxx IS2: so: yeah.
xxx I think the-the color,
xxx (.2)
xxx it's a little bit weird.
xxx but I-I-I-I- so uh y-you are ((undecipherable)) and the
acid
xxx is uh three methyl right?
xxx S6: two.
xxx IS2: two methyl.
xxx two methyl?
xxx S6: yeah.
xxx IS2: lemme check- hi
xxx S7: ((undecipherable))
xxx oh it's okay that's fine.
xxx that's happened to mine when I took the lab too.
xxx IS2: really?
xxx S7: yeah it happened to mine.
xxx IS2: [wh-what happened (to this?)
xxx S7: [did it turn orange first?
xxx S6: uh-uh-
xxx S7: cause mine turned from orange to purple
xxx [it was like the coolest thing ever.
xxx S6: [i-i wouldn't say orange i'd say like [red.
xxx IS2: [it's (very-)
xxx [i-i-i-it's for different ester)?
xxx S7: [it's fine.
xxx what did you have?
xxx S6: two methyl.
xxx S7: I had the same thing.

xxx IS2: really?
xxx S7: yeah.
xxx IS2: oh okay.
xxx S7: it's fine.
xxx IS2: ((laughs))
xxx S7: I-I-I got like a really good grade on this so it's fine.
xxx cause eventually it'll like-
xxx once you start doing like the:
xxx extraction and everything, it'll-
xxx S6: (okay).
xxx S7: I think it was the (.) boiling stone actually cause-
xxx IS2: boiling stone?
xxx S7: cause the color for mine I remember I was watching it
xxx and the color spread from the boiling stone.
xxx S6: yeah [that's (what it did)].
xxx IS2: [oh okay.
xxx S6: [((undecipherable))
xxx S7: [the color spread from the boiling stone right? yeah.
xxx it's fine.
xxx IS2: okay.
xxx S7: you'll still get like a good ((undecipherable)).
xxx S8: ((undecipherable))- (what should we put the
xxx ((undecipherable)) (in)?
xxx IS2: what?
xxx S8: what should we put the- the ((undecipherable)) in?
xxx IS2: oh the ((undecipherable))?
xxx S8: (yeah what-)
xxx IS2: I think it's good.
xxx S8: [((undecipherable))
xxx IS2: [uh h- just g- uh: follow the (menu).
xxx so fol-follow the menu first.
xxx I think it should be: forty right?
xxx S8: yeah I think so but I'm not [I don't remember
xxx IS2: [forty.
xxx S8: cause I wrote down everything in the manual
xxx (it didn't) say.
xxx yeah it doesn't really say.
xxx IS2: okay just put it in the:- uh i-in the forty,
xxx S8: [(uh huh)
xxx IS2: [and the- maybe after- maybe [uh
xxx S8: [(based on the:-)
xxx IS2: five minutes,
xxx if it not boiling, uh raise.
xxx increase.
xxx S8: okay.

xxx IS2: okay?
xxx ((pause))
xxx S9: hey ?
xxx ((undecipherable)) acid?
xxx IS2: where? what- do I need to get some (.) acid?
xxx S9: [uh
xxx IS2: [I checked the- all the-
xxx S9: you checked them already?
xxx IS2: yeah and there's no (.) [acid.
xxx S9: [(uh)
xxx IS2: which acid?
xxx [oh (.) several of them.
xxx S9: [((undecipherable))
xxx IS2: .hhh (let's see) this one is not.
xxx S9: you checked in that right?
xxx IS2: I check in the other side.
xxx I-I don't-
xxx S9: I don't think it should be there.
xxx ((pause))
xxx S10: ((undecipherable))
xxx she said they only refill this more than like point one.
xxx [five and (that) it's less than [point zero five
xxx S9: [okay (you're good) . [okay
xxx so you're good
COM IS2: is-isn't that for-for you?
COM S9: huh?
COM IS2: isn't that for- is- y-you mean the acid?
xxx S9: no no no this is something else.
xxx IS2: okay.
xxx okay okay [okay.
xxx S9: this was [((undecipherable)).
12:00
xxx IS2: I think- m-most of people got uh [this right.
xxx S9: [okay.
xxx so it's fine.
xxx [((undecipherable))
xxx IS2: so if it is not enough then just tell me.
xxx ((pause))
xxx S10: uh ?
xxx IS2: yeah.
xxx S10: so bad news
xxx I spilled my solution, (.) so I had to do it again,
xxx but when I- when I redid it,
xxx um [I-
CLF IS2: [wh-wh- how- what happened to you?

CLF to your solution?
CLF S10: uh I spilled it when I was putting it into the thing.
CLF I was about to clamp it,
CLF [I spilled it accidentally.
CLF IS2: [oh you're- you're trying to clamp this?
CLF S10: yeah I was trying to clamp it [and then
CLF IS2: [okay so this-
CLF S10: [I spilled the whole solution,
CLF IS2: [this is the- just the rest of the: solution right?
CLF S10: no it was like gone.
CLF IS2: all of them are gone?
xxx S10: like- it was like-
xxx IS2: this is the new [one?
xxx S10: [this is new.
xxx IS2: okay okay.
xxx S10: and then I-I put in um [five point eight.
xxx IS2: [this is only the acid?
xxx S10: yeah [yeah.
xxx IS2: [okay.
xxx S10: I put five [point eight of the ((undecipherable)) [acid.
xxx IS2: [just- [(did
you)
xxx did- talk to the stockroom?
xxx S10: okay.
xxx IS2: and get the: [alcohol,
xxx S10: [((undecipherable))
xxx IS2: and then
xxx uh: return this.
xxx do them,
xxx and you just turn them [you need to refuel okay?
xxx S10: [okay.
xxx ((pause))
xxx S11: (can I ask you a question)
xxx uh sorry.
xxx um what setting should this be on?
xxx IS2: uh forty should be good.
xxx oh it's too high.
xxx oh:
xxx so basically what I normally do is
xxx you can uh: get a high (value),
xxx S11: mhm.
xxx IS2: and after it is boiling,
xxx maybe you can decrease a little bit.
xxx I think fifty is enough.
xxx S11: (cause) it's been on for a while and [(nothing.

xxx IS2: [oh-
xxx you waited for a while?
xxx S11: yeah.
xxx and there's no boiling or anything.
xxx so.
xxx IS2: okay it's weird.
xxx S11: yeah.
13:46
xxx ((pause))
14:09
xxx IS2: do you have another? uh:
xxx heating ((undecipherable))?
xxx (.3)
xxx S11: yeah.
xxx IS2: so use this one.
xxx so y-you can wait uh-uh: for (.) another five minutes?
xxx so if still doesn't work,
xxx change a new one,
xxx because I'm not quite sure whether it is not good.
xxx S11: (alright).
xxx IS2: okay.
xxx S11: I don't know if it's the plug or if it's that.
xxx IS2: so (we) got this- it is (linked) together already? or
xxx you put- [clamp them
xxx S11: [it was already linked together.
xxx IS2: okay.
xxx ((pause))
xxx so uh:
xxx (.3)
xxx how long have you wait for this?
xxx S11: lemme check ((undecipherable)) .
xxx five six minutes seven minutes.
xxx IS2: seven minutes only?
xxx S11: mhm.
xxx IS2: and uh:
15:00
xxx w-w-what-what's [(the position)?
xxx S11: [it was- it was pretty high it was at
xxx sixty then I put it at eighty.
xxx IS2: oh okay.
xxx so you just put it at eighty,
xxx and wait for another five minutes,
xxx so if it doesn't work (.) change this,
xxx and the (black key) out and ((undecipherable)),
xxx S11: okay [gotcha will do thank you.

xxx IS2: [and-
xxx yeah.
xxx ((pause))
xxx this is ((undecipherable)) ((talking to himself))
15:26
xxx ((pause until the end of the video))
16:04