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A Longitudinal Study of Language Adaptation at  
Multiple Timescales in Native- and Non-Native  
Speakers

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May 2020

LabChemistry\_IS2\_20160330\_Camera2\_Seg04.pdf

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**Participants:** IS2 (individual with microphone), S1 (male undergrad TA, black sweater), S2 (female, not visible), S3 (female, not visible), S4 (male, short hair), S5 (female, short black hair), R1 (researcher, behind camera), S6 (female, long black hair), S7 (male, not visible), S8 (female, not visible), S9 (female, strong accent)

**Setting:** Chemistry lab-IS2 assisting students in their experiments; camera restricted to one corner of lab, mic feed occasionally cuts out as indicated by ((unclear))

**0:00**

xxx S1: (the SINC site)=  
xxx S2: =(the fourth floor  
xxx (it's on the) fourth floor  
xxx ((indistinguishable))  
xxx uh  
xxx IS2: yea  
xxx Matt graded this.  
xxx and uh  
xxx oh  
xxx I need regrade this  
xxx right?  
xxx S2: no no no  
xxx this isn't ( [REDACTED] 's)  
xxx IS2: I just give to the [REDACTED]?=  
xxx S2: =just giving it to [REDACTED].  
xxx yea=  
xxx IS2: =OK  
xxx S2: do you wanna collect the rest,  
xxx while I ((unclear)) put staples ((unclear))  
xxx IS2: kind of harsh.  
xxx not too harsh.  
xxx S1: the stapler is broken.  
xxx S2: wait what do you mean it's broken?  
xxx S1: so like  
xxx it's gonna flip it up  
xxx I'll collect these though  
xxx how many shoul-  
xxx oh we only have like three left.  
xxx S2: ((unclear)) yea  
xxx S1: ([REDACTED] can you open this)  
xxx IS2: do you like  
xxx uh  
xxx phys- uh  
xxx physiology?  
xxx S1: hell no  
xxx IS2: no?=  
xxx S1: =no way

xxx S2: you didn't like physiology?=  
xxx IS2: =why?  
xxx it's interest I think.  
xxx S1: [REDACTED]'s  
xxx I don't know  
xxx I don't rea- I  
xxx IS2: because of the professor or-  
xxx S1: no  
xxx it's-  
xxx S2: I like [REDACTED].  
xxx I thought [REDACTED] (was one) of the better professors.  
xxx S1: I-I mean [REDACTED] was fine.  
xxx but [REDACTED] (was the worst).=  
xxx S2: oh  
xxx = [REDACTED] is the worst=  
xxx S1: =yea  
xxx IS2: ((laughs))  
xxx S1: (I don't like [REDACTED])  
xxx S2: it's so funny because everyone complains about [REDACTED]  
xxx but I think [REDACTED]'s such a better professor than  
xxx [REDACTED]s.  
xxx S1: yea.  
xxx S2: like  
xxx I kind of-  
xxx IS2: y-you  
xxx you took physiology before too?=  
xxx S2: =I took it.  
xxx yea=  
xxx IS2: =OK  
xxx S2: I took it two semesters ago.  
xxx IS2: oh you uh-  
xxx you took lots of courses  
xxx right?=  
xxx S2: =I've taken way too many classes in my years.  
xxx IS2: ((laughs))  
xxx S2: I-I-I can't wait to graduate.  
xxx IS2: oh you select it or it just elective-  
xxx or-  
xxx S2: no  
xxx it's used for-  
xxx IS2: is it a minor?  
xxx S2: I- I probably should add a minor at this point.  
xxx um  
xxx it was- it was for pre-med.=  
xxx IS2: =OK  
xxx S1: you (got) a minor?  
xxx S2: nah  
xxx I said I should.  
xxx cause-

xxx OK  
xxx so I was trying to make my schedule for next  
xxx [semester,  
xxx S1: [what minor?  
xxx S2: and I realized that I only need  
xxx like  
xxx two or three more BME classes.=  
xxx S1: =nice=  
xxx S2: =the whole year  
xxx S1: (I'm)  
xxx S2: but the thing is  
xxx I can't graduate early because I need two  
xxx semesters of senior design.=  
xxx S1: =oh  
xxx get wrecked  
xxx get wrecked  
xxx yea  
xxx S2: so like  
xxx I have to find classes to add now  
xxx S1: I'm only on nine credits.  
xxx S2: I have to find classes to add .  
xxx or else I'm gonna be like a part time student  
INT IS2: ca-  
xxx S1: when's your enrollment date  
TTF IS2: s-so just  
xxx S1: like  
xxx the fifth?  
xxx S2: the fifth  
xxx S1: oh my god.  
xxx that's so early!=  
xxx S2: =[at seven AM  
xxx S1: [I have the sixth  
xxx at seven AM  
xxx S2: the fifth at seven AM.  
xxx like  
xxx S1: that's pretty good (though).  
xxx it's a little early.=  
xxx S2: =yea  
xxx IS2: so  
xxx how many credits have you  
xxx S2 I have like a hundred something-  
xxx IS2: are you supposed to have?  
xxx S2: fifty  
xxx eighty  
xxx I don't  
xxx too many  
xxx for BME I need a hundred thirty something.  
xxx IS2: (that's really)  
xxx S1: yea

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xxx           you know how much you need for uh  
xxx           economics?  
xxx S2:       like  
xxx           what=  
xxx S1:       thirty-nine.  
xxx S2:       ((incredulously)) what  
xxx           that's like a minor!  
xxx S1:       thirty-nine economics classes .  
xxx           that's it.  
xxx S2:       that's just a minor.  
xxx S1       that's it.  
xxx           yea  
xxx           I know.  
xxx IS2:      so  
xxx S1:       I should have chosen economics.  
xxx S2:       yea  
xxx IS2:      ((laughs))  
xxx           ((unclear)) your major?=  
xxx S1:       =yea  
xxx IS2:      as a minor?  
xxx S1:       as my major.  
xxx           you only need 39 credits in economics.  
xxx           (uh)  
xxx           to get the major.=  
xxx IS2:      =OK  
xxx S1:       yea  
xxx IS2:      but the thing is.  
xxx           do you- do you like  
xxx           do you like the: e-economics?=  
xxx S1:       =not really  
xxx           it's OK.  
xxx IS2:      OK ((laughs))  
xxx S1:       I don't know.  
xxx           I- I just like the easier classes.  
xxx IS2:      oh OK  
xxx S1:       economics is pretty-  
CLF IS2:      in the whole campus-  
CLF           ((unclear)) so  
CLF           I mean (the) economics e-  
CLF           because they  
CLF           i-it has less credits than other courses,  
xxx S1:       yea  
xxx IS2:      other majors  
xxx S1:       exactly  
xxx           yea  
xxx IS2:      OK  
xxx S1:       I think it's one of the least.  
xxx           one of the least-  
xxx           uh

xxx credit requirements.  
xxx so.  
xxx IS2: how bout chemistry.  
xxx S1: I think chemistry's a lot  
xxx I think it's about sixty?  
xxx sixty or seventy?  
xxx (maybe)  
**3:00**  
xxx maybe sixty.  
xxx IS2: ((unclear))  
xxx how bout y- your major  
xxx S1: my major's biology.  
xxx I think I need around sixty.=  
xxx IS2: =oh  
xxx you are the same-  
xxx S1: she's not-  
xxx she's-  
xxx she's-  
COM IS2: I mean he.  
xxx S1: ((unclear))  
xxx yea  
xxx S1: don't you need like sixteen credits or something?  
xxx IS2: ((inaudible))  
xxx oh  
xxx (bio)  
xxx ((inaudible))  
xxx bio is not (.) same as the bio-biochemistry  
xxx right,  
xxx S1: no  
xxx it's not.  
xxx IS2: it's two majors  
xxx right?  
xxx S1: yea  
xxx it's two majors.  
xxx S3: I have a question  
xxx ((unclear))  
xxx (is that too late before I pour it in?)  
xxx S1: honestly  
xxx I wouldn't even rinse it.=  
xxx S3: =OK  
xxx IS2: yea  
xxx S1: (sep) funnel  
xxx right?  
xxx (like)  
xxx (they don't even have a container).  
xxx S3: oh  
xxx (OK)  
xxx S1: (should be right after).  
xxx S3: yea

xxx it is  
xxx OK  
xxx ((3:47-4:33 no dialogue; IS2 continues walking))  
xxx IS2: how long is the reflux?  
xxx S4: uh=  
xxx IS2: =(already)  
xxx S4: I still have  
xxx like  
xxx thirteen more minutes.  
xxx IS2: ((nods))  
xxx ((turns to right))  
xxx how are you?  
xxx S5: ((nods))  
xxx good.  
xxx IS2: ((mouths)) OK  
xxx S5: ((inaudible))  
xxx IS2: so:  
xxx S5: (fifteen minutes).  
xxx IS2: fifteen  
xxx twenty minutes?  
xxx S5: (yea)  
xxx (I guess so)  
xxx IS2: ((nods)) OK.  
xxx S5: ((nods))  
xxx (it's a lot of waiting of course)=  
xxx IS2: =yea yea yea  
xxx so  
xxx for the reflux.  
xxx yea=  
xxx S5: =yea  
xxx IS2: ((continues walking))  
xxx ((approaches camera person))  
xxx can I see this?  
xxx R1: sure  
xxx IS2: oh  
xxx cool  
xxx R1: ((laughs))  
xxx IS2: ((laughs))  
xxx R1: (it's hard to follow you when you're going).  
xxx IS2: oh  
xxx yea yea  
xxx R1: ((laughs))  
xxx IS2: you know  
xxx R1: what is he doing,  
xxx IS2: so  
xxx (they) just mix several things together,  
xxx and get something out,  
xxx so:  
xxx yea

xxx just chemical reaction,  
xxx and they get the product,=  
xxx R1: =mhm  
xxx IS2: and uh  
xxx they're just waiting for the reaction (.) to finish=  
xxx R1: =oh:  
xxx IS2: yea  
xxx R1: that's why it's so (calm now).=  
xxx IS2: =yea  
xxx R1: (it's just)  
xxx IS2: one hour waiting.  
xxx and then after one-  
xxx after one hour,  
xxx yea  
xxx one hour.  
xxx yea  
xxx R1: (it's)-  
xxx IS2: but  
xxx I think they:  
xxx they should be finish.  
xxx in fifteen minutes.  
xxx m-most of the students.  
xxx R1: OK  
xxx IS2: yea  
xxx then after that  
xxx they need to purify  
xxx the  
xxx thing  
xxx because it's not quite pure.  
xxx R1: is it a crystal?  
xxx IS2: uh:  
xxx it's liquid.  
xxx R1: oh:  
xxx IS2: yea  
xxx so  
xxx yea  
xxx so  
xxx just purify.  
xxx and then it's done today.=  
xxx R1: =OK  
xxx IS2: yea  
xxx two step.  
6:00  
xxx two (.) parts.=  
xxx R1: =mhm  
xxx IS2: one is reaction.  
xxx the other part is purify-purification.  
xxx yea  
xxx R1: (wow)



xxx so interesting.  
xxx IS2: yea ((chuckles))  
xxx R1: I used to do this when I (was in high school).=  
xxx IS2 =yea  
xxx you're supposed to pick several chemistry courses  
xxx R1: yea  
COM IS2: (if you have time)  
xxx R1: ((laughs))  
xxx IS2: ((laughs))  
xxx yea  
xxx how bout your courses?  
xxx R1: hm,  
xxx IS2: how bout your courses this semester?  
xxx R1: my courses?=  
xxx IS2: =yea=  
xxx R1: =I just have psycholinguistics  
xxx and statistics  
xxx IS2: ((excited)) oh!  
xxx you t- you (doing) statistics.  
xxx R1: yea yea  
xxx IS2: uh which-  
xxx I-I-I want to take statistics too  
xxx R1: oh  
xxx IS2: because my-my major-  
xxx my research still needs ((indistinguishable))  
xxx mathematic equation for the analysis of=-  
xxx R1: =right  
xxx um  
xxx so:  
xxx I take it in the psychology department,  
xxx but I think next semester I wanna try and take a class  
xxx in the statistics department,  
xxx cause we-  
xxx IS2: oh-  
xxx we have the statist department!  
xxx R1: yea  
xxx yea  
xxx and there are couple of graduate courses.  
xxx IS2: O:K  
xxx R1: they have like  
xxx data analysis,  
xxx modeling,  
xxx stuff like that.  
xxx IS2: oh really?  
xxx R1: maybe modeling is good=  
xxx IS2: =yea  
xxx modeling  
xxx yes  
xxx yes

xxx because we have lots of-  
xxx you know-  
xxx we got-  
xxx uh  
xxx data from experiment.=  
xxx R1: =mhm  
xxx IS2: and we need to do some-  
xxx um:  
xxx modeling.=  
xxx R1: =mhm  
xxx IS2: to: get the (feed).  
xxx I don't know.  
xxx R1: like a regression?  
xxx IS2: yea  
xxx R1: oh  
xxx IS2: regression curve  
xxx something like that.  
xxx yea  
xxx R1: yea  
xxx you get more ((unclear))  
xxx IS2: oh:  
xxx OK  
xxx because I don't know-  
xxx uh  
xxx we-whether we have the statistics department  
xxx as in one department,  
xxx or it's just belongs to other department.  
xxx R1: I think we have  
xxx cause  
xxx yea  
xxx (look on their) uh:  
xxx website  
xxx IS2: OK  
xxx R1: and they have- they have some graduate students and  
xxx summer students  
xxx IS2: OK  
xxx cool  
xxx R1: yea  
xxx IS2: OK  
xxx R1: ((laughs))  
xxx IS2: so  
xxx probably we-  
xxx R1: yea  
xxx we can take a class together.  
xxx IS2: we take a- take a  
xxx yes  
xxx R1: ((laughs))  
xxx IS2: (cool)  
xxx oh

xxx R1: only get better at statistics.  
xxx IS2: last semester  
xxx you took- you took a the:  
xxx ESL five ni-  
xxx uh:  
xxx 598  
xxx R1: 598  
xxx IS2: eight  
xxx eight  
xxx OK  
xxx so I'm taking right now.=  
xxx R1: =oh  
xxx IS2: yea yea yea  
xxx R1: who's your teacher?  
xxx IS2: [REDACTED]?  
xxx R1: ((inaudible))  
xxx IS2: do you know [REDACTED]?  
INR is next to the  
INR uh  
INR the office of the [REDACTED]-  
INR is next to the (last semester).  
xxx R1: wait  
xxx oh  
xxx ([REDACTED])?  
xxx IS2: [REDACTED]  
xxx yea yea yea  
xxx R1: (OK)  
xxx IS2: [REDACTED]  
xxx yea  
xxx [REDACTED]'s good.=  
xxx R1: =yea  
xxx IS2: because I have the schedule  
xxx which is conflict with a class.=  
xxx R1: =mhm  
xxx IS2: so I switch another professor.  
xxx R1: OK  
xxx IS2: yea  
xxx R1: is it going OK?  
xxx IS2: it's going OK  
xxx R1: you are learning stuff?  
xxx IS2: she talks a lot about the presentation.=  
xxx R1: =yea  
xxx IS2: which is good for me,=  
xxx R1: =yea  
xxx (we're in the middle of doing presentations).=  
xxx IS2: =yea  
xxx this semester  
xxx I  
xxx I-I have so: many presentations

xxx           you know.=  
xxx R1:       =right  
xxx IS2:      so  
xxx           and uh  
xxx           because I decide my research  
xxx           uh  
xxx           r-research group already  
xxx           and uh-  
xxx R1:       oh  
xxx           that's good  
xxx IS2:      yea yea yea  
xxx           it's  
xxx           the professor is very nice  
xxx           and um:  
xxx           so  
xxx           but the thing is  
xxx           when I (.) do my first presentation among  
xxx           you know  
xxx           the research group,  
xxx           ((stammers))  
xxx           uh:  
xxx           chemistry professor,  
xxx           (I'm extremely nervous).  
xxx           (and practice) a lot.  
COM          and after that  
COM          the g-the thing's good.  
COM          and (then) after I finish my presentation,  
COM          and the professor goes and (wait to) talk to me a it's  
COM          good,  
COM          oh  
COM          it's good.  
xxx R1:      ((laughs))  
xxx IS2:      ((laughs))  
xxx R1:      yea  
xxx           I have one too.  
xxx           I'm so nervous.  
xxx IS2:      yea  
xxx           it's-  
xxx R1:      it's in twenty days=  
xxx IS2:      =really  
xxx R1:      yea  
xxx IS2:      I think your English is good.  
xxx           because the reason why I nervous because of the- my  
xxx           English.  
xxx           so  
xxx           for the-for the-for the-for the-for the  
xxx           for the topic  
xxx           I think I can (handle) that.  
xxx           but

xxx you know  
xxx even though you know the topic  
xxx but  
xxx it  
xxx sometimes  
xxx R1: [yea  
xxx IS2: [you cannot express very well.  
xxx R1: I know  
xxx IS2: that's why-  
xxx you know-  
xxx if you're nervous.  
xxx R1: I'm scared.  
xxx so I'm not really scared of presenting,  
xxx I'm scared of the questions,  
xxx IS2: ((excitedly)) oh:  
xxx R1: cause then I can't prepare,=  
**9:00**  
xxx IS2: =yea  
xxx you cannot prepare what kinda questions they are going  
xxx R1: [((unclear))  
xxx IS2: [to have  
xxx R1: so:  
xxx I don't know if I'll have the right words [to answer  
xxx IS2: o:h yea I see.  
xxx R1: (I don't like when it's like)  
xxx not predictable  
xxx IS2: yea  
xxx R1: ((laughs))  
xxx IS2: it's n-  
xxx it's the most nervous part.=  
xxx R1: =yea  
xxx IS2: yea  
xxx S2: (question)  
xxx IS2: yea  
xxx sure  
xxx S2: um  
xxx if someone's absent when a lab report is due,  
xxx they hand it in-  
xxx and they hand it in this week,=  
xxx IS2: =yea  
xxx S2: d-do you take points off?  
COM IS2: yea  
COM poi-  
COM uh  
COM fou-four points (.) off.  
xxx S2: but he was was absent.  
xxx IS2: uh:  
xxx absent?  
xxx oh yea

xxx it's different.=  
xxx S2: =yea  
xxx right?  
xxx you-  
xxx IS2: (I need to talk with) Doc Chen because  
xxx yea  
xxx so  
xxx if-  
xxx S2: I thought you don't take points off 'cause they were  
xxx absent  
xxx but I don't know.  
xxx IS2: uh  
xxx if  
xxx if someone's absent  
xxx I think w-  
xxx uh  
xxx we don't need to (take something)  
xxx S2: yea  
xxx cause like ((points to student toward back of lab))  
xxx he was absent last week.  
xxx and he handed in his-  
xxx he was supposed to hand it in last week but he wasn't  
xxx here,  
xxx and he handed it in this week.=  
xxx IS2: =OK  
xxx S2: so do you take points off for that?  
xxx IS2: you mean for- for the=  
xxx S2: =the report,  
xxx IS2: for the (.) acid  
xxx S2: [the ((unclear)) one  
xxx IS2: oh  
xxx it's not mine  
xxx right?  
xxx S2: yea  
xxx no  
xxx but [REDACTED] doesn't know  
xxx so=  
xxx IS2: =OK  
xxx S2: and Doctor Chan stepped out  
xxx so  
xxx IS2: ((laughs)) OK  
xxx S2: I'll ask her again=  
xxx IS2: =because I don't know too.=  
xxx S2: =OK  
xxx IS2: because I-I-I haven't met this (.) (problems since the  
xxx last semester).  
xxx yea  
xxx S2: OK  
xxx IS2: so:

xxx S2: yea  
xxx I'll-I'll just ask Doctor [REDACTED] ((starts to move))=  
xxx IS2: =yea  
xxx mhm  
xxx S2: wait  
xxx no  
xxx didn't you grade someone's report last week?  
xxx the-the benzoic acid one?=  
xxx IS2: =yea  
xxx (benz) acid's graded by me .  
xxx S2: you didn't take off four points  
xxx right? ((shakes head))  
xxx IS2: ((shakes head)) no.  
xxx S2: yea ((shrugs))  
xxx OK  
xxx so  
xxx you don't take off four points.  
TTF IS2: oh  
TTF but I-I-I-I-I ((sounds exasperated))I know  
TTF uh  
TTF students who's absent last semes-last-  
TTF for the- for the- for the ((unclear)) acid=  
xxx S2: =yea  
xxx remember I gave you!  
xxx from our lab.  
xxx you graded it then!  
xxx and you gave it back to them.=  
xxx IS2: ((realizing)) oh  
xxx you mean the lab  
xxx right?  
xxx S2: ((nods)) yea yea  
xxx IS2: I-I don't know.  
COM I-I-I didn't get some points off of.=  
xxx S2: =oh  
xxx you didn't take ((unclear))  
xxx IS2: yea yea yea  
xxx ((continues to walk around))  
xxx S6: ((raises hand))  
xxx IS2: yea  
xxx S6: OK  
xxx um  
xxx ((unclear)) I'm actually doing a TLC result.  
xxx ((unclear))  
xxx IS2: yea  
xxx w-where is your TLC plate?  
xxx ((laughs and points @ page))  
xxx S6: oh  
xxx (not yet)  
xxx (I)

xxx IS2: you need to attach here  
xxx right  
xxx S6: ((nods)) yea=  
xxx IS2: =because you-  
xxx you need to get som-  
xxx lots of points out  
xxx S6: ((nods)) yea  
xxx IS2: OK  
xxx so  
xxx S6: I had a question for number five  
xxx IS2: ((picks up paper and reads))  
xxx S6: um  
xxx so  
xxx when it's asking  
xxx like  
xxx what other evidence can support ((unclear))  
xxx does that mean (like) what other experiments you can  
xxx have,  
xxx or like  
xxx what other (studies) we did.  
xxx IS2: so  
xxx you did a  
xxx uh  
xxx TLC plate  
xxx right?=  
xxx S6: =yea  
xxx IS2: and uh:  
xxx it got a standard.  
xxx you-you just compare the-  
xxx so. ((reads paper again))  
xxx what's the identification?  
xxx they want to identify-  
xxx S6: ((points @ page)) yea  
xxx IS2: what?  
xxx S6: it's w-w-where we co- we collected a dimethyl  
xxx (fumarate) as the crystals,  
xxx IS2: uh  
xxx they want to identify whether this is your-  
xxx S6: ((nods))  
xxx IS2: compound you want?=  
xxx S6: =yea  
xxx IS2: OK  
xxx so  
xxx dimethyl fumarate.  
xxx do you know some (.) properties about this compound?  
xxx because I-I-I cannot remember that.  
xxx S6: ((smiles and begins shuffling through papers))  
xxx (when you grade these)  
xxx (is it graded to like-)



xxx IS2: it is solid  
xxx right?  
xxx it is crystal.  
xxx S6: ((nods)) yea  
xxx ((looks back down at papers)) so:  
xxx OK  
xxx IS2: ((leans down to read paper))  
xxx S6: so I guess maybe just like  
xxx properties of the crystals,  
xxx like-like.  
xxx IS2: have you checked the: melting point (of all this)?  
xxx S6: ((shakes head)) we didn't have to.  
xxx IS2: you don't have to  
**12:00**  
xxx but you should have .((turns pages))  
xxx I think-  
xxx S6: [((shakes head)) no  
xxx you didn't have to  
xxx IS2: because  
xxx if you see here:,  
xxx S6: cause  
xxx it says that we just recycle the crystals.  
xxx ((unclear))=  
xxx IS2: =yea  
xxx and uh  
xxx ((continues reading))  
xxx no  
xxx right?  
xxx because  
xxx ((mumbles while reading paper))  
xxx S6: (so would I just say)  
xxx (like)  
xxx ((unclear))  
xxx IS2: yea  
xxx melting point is one thing  
xxx yea.  
xxx because according to- base on the melting point.  
xxx S6: (yea)  
xxx IS2: and uh:  
xxx you compare the:  
xxx you compare the (value) with the standard (value),=  
xxx S6: ((nods)) =mhm  
xxx IS2: so which is already we have,  
xxx so-  
xxx you compare the- if this very in- identical,  
xxx or very similar,=  
xxx S6: =mhm  
xxx IS2: I think this is one reason.  
xxx one

xxx you know  
xxx uh:  
xxx one thing that can support this.=  
xxx S6: ((nods)) =OK  
xxx IS2: so:  
xxx ((stammers)) b-but uh  
xxx the-the question is.  
xxx if you don't do the: melting point.  
xxx I-I'm not quite sure if you are right on this.=  
xxx S6: ((nods)) =yea  
xxx IS2: do you get some- can you get some point?  
xxx S6: ((looks confused and frowns))  
xxx IS2: so  
xxx this is my concern.  
xxx yea ((unclear))  
xxx S6: ((inaudible)) OK  
xxx IS2: but it depends on you  
xxx right?  
xxx so I just-  
xxx this is only my suggestions.  
xxx I think the melting point is good,  
xxx S6: ((nods)) OK  
xxx IS2: and uh:  
xxx S6: ((indistinguishable))  
xxx IS2: yea  
xxx S6: OK  
xxx IS2: and  
xxx yea  
xxx a-and the appearance.  
xxx S6: ((nods)) alright  
xxx IS2: and the- a-and the (white)  
xxx uh  
xxx I mean  
xxx yea  
xxx just physical properties,  
xxx uh: appearance,  
xxx and the melting point,  
xxx S6: ((nods)) mhm  
xxx IS2: something like that.  
xxx because  
xxx uh:  
xxx as you- if you remember ((unclear)) acid experiment.  
TTF S6: mhm  
TTF th-they want you  
TTF uh  
TTF uh ju-  
TTF uh  
TTF iden- uh  
TTF to (.) judge whether the compound is pure not just

TTF based on appearance  
TTF right?  
xxx S6: ((nods)) OK  
xxx IS2: so this is the one,  
xxx uh  
xxx um  
xxx possible reason that you can identify in this.=  
xxx S6: =OK  
xxx IS2: and also melting point  
xxx if you do the ((unclear))  
xxx th-they want you iden-  
xxx to-to  
xxx uh:  
xxx judge the compound is pure not uh  
xxx based on the:  
xxx S6: ((nods)) melting point=  
xxx IS2: =melting point  
xxx right?  
xxx S6: ((nods)) yes  
xxx IS2: so for this,  
xxx I think it's quite similar.  
xxx S6: ((nods)) OK  
xxx IS2: yea  
xxx S6: alright  
xxx thank you  
xxx IS2: yea ((continues walking))  
xxx oh  
xxx you are so fast!  
xxx so w-w-  
xxx uh:  
xxx w-where is your (.) water?  
xxx S9: (it's here)=  
xxx IS2: =OK  
xxx so  
xxx you have a dry-  
xxx right?=  
xxx S9: =yea  
xxx IS2: uh  
xxx S9: this one is dry one  
xxx and this one is ((unclear)) with ether,  
xxx IS2: OK  
xxx so this is organic layer  
xxx right?  
xxx S9: yea=  
xxx IS2: =uh:  
xxx how bout the aqueous layer?  
xxx S9: (sorry)  
xxx what?  
xxx IS2: aqueous layer.

xxx           you also need two flask.  
xxx           one is for organic and one is for the-  
xxx           another for the aqueous layer.  
xxx S9:       yea=  
xxx IS2:      =oh  
xxx           you can use beaker or something else.=  
xxx S9:       =OK  
xxx IS2:      you don't need- you don't have to use-  
xxx           uh:=  
xxx S9:       =(OK)=  
xxx IS2:      =a flask=  
xxx S9:       =OK=  
xxx IS2:      =OK=  
xxx S1:       ((inaudible))  
xxx IS2:      really?  
xxx           you don't have your (.) breakfast?  
xxx S1:       I-I ((unclear))  
xxx IS2:      why.  
**15:00**  
xxx S1:       I never have breakfast when I come here.  
xxx IS2:      really?=  
xxx S1:       =yea  
xxx           it's too early for me.  
xxx IS2:      but I-I don't- I don't think it's good.=  
xxx S1:       =yea  
xxx           I mean it's ((laughs))-  
xxx IS2:      ((laughs))  
xxx S1:       I'll eat after.  
TTF IS2:     w-w-where  
TTF           uh  
TTF           you drove- uh you uh drive  
TTF           dr-drive?  
xxx S1:       nah  
xxx           I just-  
xxx IS2:      (and you) live on campus?=  
xxx S1:       =yea  
xxx IS2:      which  
xxx S1:       West Apartments.  
xxx IS2:      where you-wh-  
xxx           West,  
xxx S1:       West  
xxx IS2:      oh  
xxx           you are s-  
xxx S1:       yea  
xxx IS2:      it's-it's-it's expensive,  
xxx           you know?  
xxx S1:       oh  
xxx           you live in Schomburg?  
xxx IS2:      no

xxx I-I-I-I-I live in (Champin)  
xxx you know?  
xxx S1: Chapin  
xxx OK  
xxx IS2: it's near to the:-  
xxx S1: hospital.=  
xxx IS2: =hospital  
xxx yea=  
xxx S1: =yea  
xxx IS2: but  
xxx I will move out  
xxx uh:  
xxx this summer.  
xxx S1: really?=  
xxx IS2: =yea  
xxx S1: where are you going?  
xxx IS2: to the Coram.  
xxx you know Coram?  
xxx Coram town?  
xxx S1: oh  
xxx IS2: uh  
xxx S1: not on-campus?  
xxx IS2: it's not  
xxx uh yea  
xxx I-eh-I will leav- uh  
xxx because  
xxx yea  
xxx S1: it's cheaper?  
xxx IS2: it- uh  
xxx it's cheaper and also  
xxx you know?  
xxx it's good.=  
xxx S1: =yea  
xxx IS2: and  
xxx I'm sure right now  
xxx uh:  
xxx is- is your's double room or a single room?=  
xxx S1: =single room  
xxx IS2: oh  
xxx single room is OK.  
xxx S1: your's is double?  
xxx IS2: yes  
xxx S1: ((shakes)) oh:  
xxx that's so annoying.  
xxx IS2: I know  
xxx yea  
xxx because af-uh:  
xxx when I (.) want to apply for the:  
xxx uh:?

xxx house  
xxx S1: ((nods))  
xxx IS2: so before I came here ,  
xxx in China,  
xxx and uh:  
xxx I-I have no choices.  
xxx S1: ((nods)) yea  
xxx IS2: only double room.  
xxx S1: right  
xxx IS2: because  
xxx I got a- I got (the) offer from Stony is very late.  
xxx so  
xxx S1: oh  
xxx so you didn't have a choice.=  
xxx IS2: =yes=  
xxx S1: =yea  
xxx it's OK  
xxx now you're gonna get a single?  
xxx like  
xxx your own room?  
xxx IS2: yea  
xxx and um  
xxx uh  
xxx I will buy a car  
xxx u::h  
xxx the following week?  
xxx S1: ((nods))  
xxx IS2: so:  
xxx S1: wow  
xxx IS2: yea  
xxx S1: you know what car you're getting?  
xxx like a used one  
xxx right?  
xxx IS2: uh:  
xxx I don't-  
xxx n-new car  
xxx S1: new car?  
xxx IS2: yea  
xxx S1: nice  
COM IS2: so  
COM it's a S-Subaru  
COM you know?=  
xxx S1: =yea  
xxx what do you think you're gonna get?  
CLF IS2: what?  
xxx S1: do you know which car?  
CLF IS2: uh  
CLF S-S-  
CLF I think is spell-

CLF I-I don't know my pronounce is right.  
CLF it's S-U-B-U-R-A,  
CLF Subaru?  
CLF it's a Japanese  
CLF uh  
CLF car  
xxx S1: Subaru  
xxx yea  
xxx IS2: Subaru  
xxx yea yea yea  
xxx OK  
xxx Subaru  
xxx Subaru Impreza  
xxx S1: Impreza  
xxx IS2: yea yea yea  
xxx S1: ((nods)) I like that one  
xxx IS2: ((enthusiastic)) really?  
xxx S1: yea  
xxx IS2: yea  
xxx S1: it's one of my favorite ones.  
xxx IS2: lots of-  
xxx lots of- lots of my friends.  
xxx uh ((unclear))-  
xxx S1: ((nods)) it's a good car.  
xxx IS2: ((unclear)) try that.  
xxx S1: it's a good car.  
xxx IS2: yea yea yea  
xxx S1: uh  
xxx it's also all-wheel drive,  
xxx IS2: yes  
xxx all-wheel drive.  
xxx S1: so it's good in the snow.  
xxx he's gonna get Subaru.  
xxx S2: ((enthusiastic)) ooh  
xxx Subarus are nice.  
xxx they  
xxx oh my god  
xxx the car show,  
xxx the auto show in New York City,  
xxx IS2: oh  
xxx l-last ((unclear)) ((mic feed keeps cutting out til  
XXX ~17:28))  
xxx S2: ((unclear)) (performed) really nice  
xxx and like  
xxx the (stats were pretty good for them).  
xxx so  
xxx S1: yea  
xxx my uncle just bought me like a new car,  
xxx like

xxx not a new car but a used car=  
xxx S2: =mhm  
xxx S1: and like  
xxx he didn't tell my mom,  
xxx so like-  
xxx S2: you're just gonna drive home with a new car?=  
xxx S1: =yea  
xxx it's like  
xxx it's also a BMW=  
xxx S2: =yea  
xxx (a beamer),  
xxx S1: I'm kinda stressed.  
xxx I'm scared that I'm gonna ((unclear))  
xxx S2: which one is it?  
xxx ((17:45-17:55 feed keeps cutting out))  
xxx IS2: ((laughs))  
xxx S1: ((looking through phone)) like  
xxx literally  
xxx my uncle is like-  
xxx S2: is he your mom's brother?=  
**18:00**  
xxx S1: =yea=  
xxx S2: =OK  
xxx S1: uh my  
xxx oh whoops  
xxx S2: (you just deleted it?)  
xxx S1: oh  
xxx I think I accidentally deleted it.  
xxx but anyway  
xxx I was like-  
xxx he sent me a picture of a car,  
xxx and he's like  
xxx do you like it?  
xxx I was like  
xxx yea (I like it)  
xxx it's good.  
xxx he's like come and take it.  
xxx I was like  
xxx what?  
xxx he's like  
xxx yea  
xxx like I just signed the papers.  
xxx (take one)  
xxx IS2: ((laughs))  
xxx ((unclear))  
xxx S2: when you have too much money and too much time  
xxx ((inaudible))  
xxx S1: ((inaudible))  
xxx IS2: ((continues walking))



xxx ((18:28-19:40 no dialogue/feed cuts out))  
xxx S3: um  
xxx I have a question.  
xxx IS2: yea=  
xxx S3: =so  
xxx after I'm done refluxing for an hour,  
xxx right?  
xxx I take the -  
xxx ((picks up book)) it says here-  
xxx to take the ether,  
xxx the water,  
xxx um  
xxx the ether the water and put it in there and shake it?  
xxx IS2: no.  
xxx so  
xxx basically  
xxx after you finish this,  
xxx right?=  
xxx S3: =mhm  
xxx IS2: you transfer this solution into the funnel first,=  
xxx S3: =right  
xxx IS2: and then rinse the-this,  
xxx uh  
xxx uh:  
xxx IBF with twenty mil ether.  
xxx and then transfer the-the ether into the-  
xxx because ((unclear)) y-you don't want to- ((unclear))  
xxx you want ((unclear)) some product  
xxx right?=  
xxx S3: =yea  
xxx IS2: you still have some product in-in your RBF.  
xxx even though you transfer the solution into the funnel  
xxx right?  
xxx so you rinse the RBF with two mil-with twenty mil  
xxx ether.  
xxx and transfer the twenty mil ether into the  
xxx uh  
xxx funnel again.=  
xxx S3: =mhm  
xxx IS2: and you pour  
xxx uh-  
xxx S3: water  
xxx IS2: water  
xxx I don't know how much water you need to-  
xxx S3: twenty milliliters.  
xxx IS2: twenty mil  
xxx OK  
xxx (twenty mil) water into the funnel again,  
xxx S3: oh:

xxx IS2: so ((shaking motion))  
xxx shake  
xxx S3: OK  
xxx so um  
xxx IS2: do you know how to use funnel?  
xxx S3: um  
xxx IS2: so basically you just-  
xxx you need to have-  
xxx uh:  
xxx a stopper,  
xxx S3: a stopper  
xxx right?=  
xxx IS2: =OK  
xxx so after you add a stopper  
xxx and uh shake ((shaking motion))  
xxx S3: ((nods))  
xxx IS2: and uh  
xxx ((takes out separatory funnel))  
xxx you have the stopper  
xxx right?  
xxx ((puts imaginary stopper on funnel and shakes it))  
xxx S3: ((nods))  
xxx IS2: and you- here  
xxx you-you have the solution inside your funnel?  
xxx ((while shaking funnel)) and you shake shake shake  
xxx shake shake  
xxx S3: ((smiles)) mhm  
xxx IS2: and uh vent ((twists knob on funnel))  
xxx S3: oh  
xxx IS2: shake  
xxx S3: then shake again  
xxx IS2: vent  
xxx S3: and vent  
**21:00**  
xxx IS2: make sure it is sufficiently mixed with solvent  
xxx with ether  
xxx with water  
xxx with anything else.=  
xxx S3: =oh  
xxx IS2: right?  
xxx S3: so at first  
xxx I put the  
xxx um  
xxx the solution into the- into the funnel,  
xxx then I rinse it with,  
xxx uh  
xxx ether to get any remaining product into the funnel,=  
xxx IS2: =yes  
xxx S3: and then I add the water into the funnel.

xxx IS2: ((nods)) you got it.  
xxx S3: and then shake it  
xxx OK  
xxx IS2: yes  
xxx S3: (thank you)  
xxx IS2: you're right.  
xxx ((continues walking))  
xxx ((21:20-21:41 no dialogue))  
COM is it cold?  
xxx S7: no  
xxx it's still a little bit (warm).  
COM IS2: oh  
COM it's cold.  
xxx S7: it's cold?  
COM IS2: oh no  
COM sorry  
COM it's still hot.  
xxx S7: ah yea  
xxx it's still hot. ((laughs))  
xxx ((Here I can't tell if he is joking or if he confused  
xxx the words for hot and cold))  
xxx IS2: ((laughs))  
xxx OK  
xxx oh you just finish-  
xxx S7: ((inaudible))  
xxx I just finished  
xxx um  
xxx refluxing.  
xxx ((inaudible))  
xxx IS2: OK  
xxx so  
xxx yea  
xxx S7: so I have to until eleven.  
xxx IS2: yea  
xxx just transfer this,  
xxx don't -  
xxx uh  
xxx don't transfer the: boiling stone in your funnel.  
xxx S7: OK  
xxx IS2: OK?  
xxx and uh:  
xxx rinse with uh  
xxx twenty mil ether,  
xxx uh  
xxx with remaining product ,  
xxx you transfer into the here,  
xxx and add twenty mil (pre-chill) water.  
xxx and shake vent.  
xxx shake vent.

xxx OK  
xxx and you got two layers?  
xxx S7: (mhm)  
xxx IS2: OK  
xxx so w- so after you shaking  
xxx and the- and you put into here and just waiting until  
xxx you have two layers  
xxx right?  
xxx so  
xxx just t-take the stuff out.  
xxx and w-wait.  
xxx S7: and uh:  
xxx so for like-  
xxx like these tube is fine.  
xxx IS2: yes  
xxx s-so make sure-  
xxx so for organic layer  
xxx make sure this is dry enough.  
xxx OK  
xxx so for the aqueous layer-  
xxx it doesn't matter whether it is.=  
xxx S7: =OK  
xxx IS2: dry or not.=  
xxx S7: =oh right  
xxx I didn't wash this.  
xxx I didn't wash any of them (.) yet.  
xxx IS2: don't wash this.  
xxx yea  
**24:00**  
xxx ((22:54-26:16 no dialogue))  
xxx ((IS2 seems to be conversing with a student for a  
xxx moment at 25:42 but feed keeps cutting out))  
xxx IS2: are you still waiting?  
xxx S5: no.  
xxx it's just cooling.  
xxx IS2: is-is it cooling?=  
xxx S5: =yea  
xxx IS2: if-if you want cooling faster  
xxx you need to-  
xxx uh  
xxx take i-take the (metal) out.=  
xxx OK?  
xxx ((stays in case S5 needs help))  
xxx so make sure the (.) the condenser is stable  
xxx OK?  
xxx (because)  
xxx S5: ((attempts to take metal out))  
xxx (uh)  
xxx (I don't know if I can take it out)

xxx IS2: huh?  
xxx S5: I don't know if I can ((unclear)) cause it's  
xxx ((unclear))  
xxx IS2: OK  
xxx let me- let me do it.  
xxx S5: ((continues to attempt to fix it))  
**27:00**  
xxx IS2: is it good?  
xxx S5: ((continues fixing))  
xxx IS2: OK  
xxx you got it.  
xxx ((sticks around just in case))  
xxx S5: ((laughs))  
xxx IS2: ((laughs))  
xxx OK OK  
xxx does it-  
xxx S5: ((laughs))  
xxx IS2: OK  
xxx let-let-let me- let me do.  
xxx S3: here  
xxx you can just move this over=  
xxx IS2: =OK  
xxx ((moves into apparatus)) so:  
xxx ((helps S5))  
xxx K  
xxx so next time you do the reflux.  
xxx make sure you can use a (lock) to fix the: condenser.=  
xxx S5: =OK= ((nods))  
xxx IS2: =OK?  
xxx should be very stable.  
xxx ((continues walking))  
xxx ((27:54-28:27 no dialogue))  
xxx S8: is this cool enough?  
xxx IS2: OK  
xxx S8: can you-can you feel it and see if it's cool?  
xxx IS2: it's hot!  
xxx no.  
xxx just kidding ((laughs))  
xxx it's-you-you can-you can use.=  
xxx S8: =OK  
xxx IS2: ((laughs))  
xxx just make sure-  
xxx don't let the: boiling stone (.) into the: funnel,=  
xxx S8: =OK  
xxx IS2: are you chemistry major?  
xxx S8: no.  
xxx IS2: biology? ((unclear))  
xxx ((mic feed cuts off; no dialogue))  
xxx ((28:54-29:25 no dialogue))

xxx take the stuff out.  
xxx S9: (so the top one is organic)?=  
xxx IS2: =yes.  
xxx S9: so-  
xxx IS2: how do you know the top one is organic one?  
xxx S9: because it (precipitated).  
xxx IS2: oh yea yea yea  
xxx S9: ((unclear))  
xxx IS2: OK  
xxx S9: ((indistinguishable))  
xxx IS2: so  
xxx uh  
xxx S9: ((unclear)) the bottom one ((unclear)) the top one you  
xxx want  
xxx ((unclear))  
xxx IS2: yes  
**30:00**  
xxx ((30:02-30:59))  
xxx so:  
xxx even though you have some aqueous  
xxx uh  
xxx into the organic layer  
xxx right?  
xxx so  
xxx because this ((unclear)) this is aqueous layer  
xxx right?=  
xxx S9: =yea  
xxx IS2: and then just make sure all the aqueous layer goes  
xxx here,=  
xxx S9: =OK  
xxx IS2: and the  
xxx uh  
xxx and the top layer goes to another flask  
xxx S6: ((inaudible)) ((approaches IS2))  
xxx IS2: yea  
xxx S6: I have a question ((unclear))  
xxx ((points @ page)) um  
xxx so for the third problem  
xxx when it's asking-  
xxx IS2: it's different one?  
xxx S6: yea  
xxx it's a different one.  
xxx I finished the other one.  
xxx IS2: (you need to) hand out two-  
xxx you post today?  
xxx S6: no no no no  
xxx not today  
xxx it's for- it's for next week's=  
xxx IS2: =ok

xxx S6: I just wanted to ask you.  
xxx so (before they were due)=  
xxx IS2: =OK  
xxx S6: so if you-  
xxx if you load it with like (.)  
xxx a big volume of the-of the pigment solution (.)  
xxx like when you're separating it (.)  
xxx does it-it shouldn't affect the separation  
xxx right?  
xxx IS2: ((reading problem)) load the ((unclear)) with a much  
xxx larger  
xxx volume of (peachy) solution.  
xxx peachy solution is a mixture right?=  
xxx S6: =yea  
xxx the mixture  
xxx with the beta carotene and the (chlorophyll)  
xxx IS2: how do you s-  
xxx uh  
xxx what's the solvent in the-  
xxx in the peachy solution?  
xxx do you not remember?  
xxx S6: ((repeating to self and looking at paper)) the solvent  
xxx I think it was a  
xxx uh  
xxx no  
xxx it was like (hexa or glyce (.)) something)  
xxx ((indistinguishable))  
xxx ((shuffles through papers))  
xxx uh yea  
xxx it was um  
xxx ((indistinguishable))  
xxx yea  
xxx IS2: ((skims through paper))  
xxx S6: yea  
xxx the peachy solution was the (green) and ethyl acetate  
xxx IS2: ((continues reading))  
xxx so  
xxx what's your opinion about this?  
xxx S6: so  
xxx I guess it wouldn't?  
xxx effect- it would just still separate  
xxx right?  
xxx as normal ((hand gestures))  
**33:00**  
xxx oh no  
xxx because ((unclear)) acetate  
xxx it would push ((unclear))  
xxx IS2: so ((laughs))  
xxx S6: ((laughs))

xxx IS2: as I-far as I know  
xxx so  
xxx S6: yea  
xxx IS2: because we have the ace-acetate in-in there  
xxx right?=  
xxx S6: =right  
xxx IS2: so i-i-it will influence  
xxx because  
xxx you know=  
xxx S6: =yea  
xxx IS2: it's one to one ratio.  
xxx and uh  
xxx it-so  
xxx if you have too large one to one ratio solvent,  
xxx S6: ((nods))  
xxx IS2: and (then) you upload to the column=  
xxx S6: =yea  
xxx IS2: and uh  
xxx your thing will ((video ends mid-sentence))