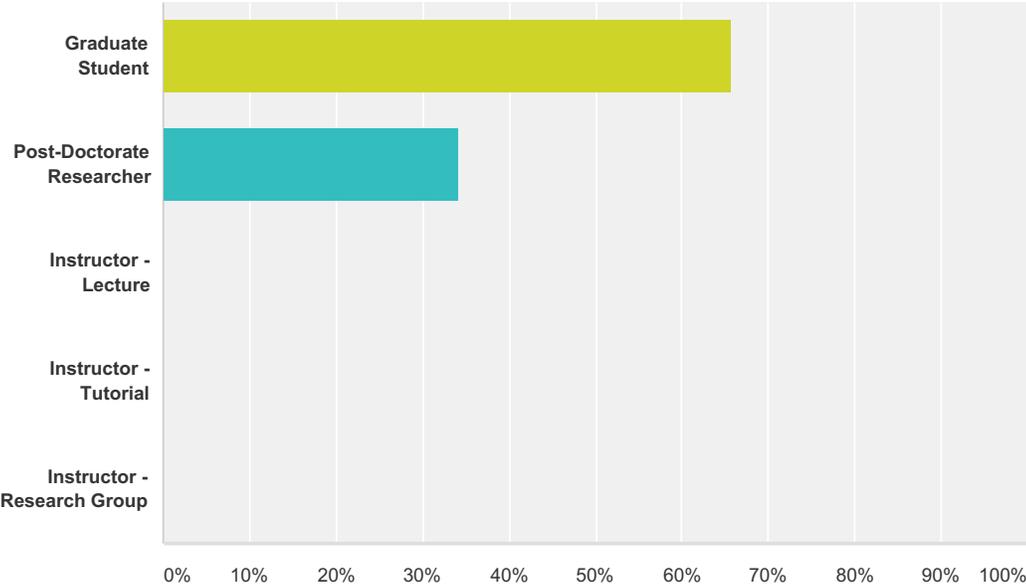


Q3 Please indicate your role/position during the CIDER II 2016 Summer Program (Select all that apply):

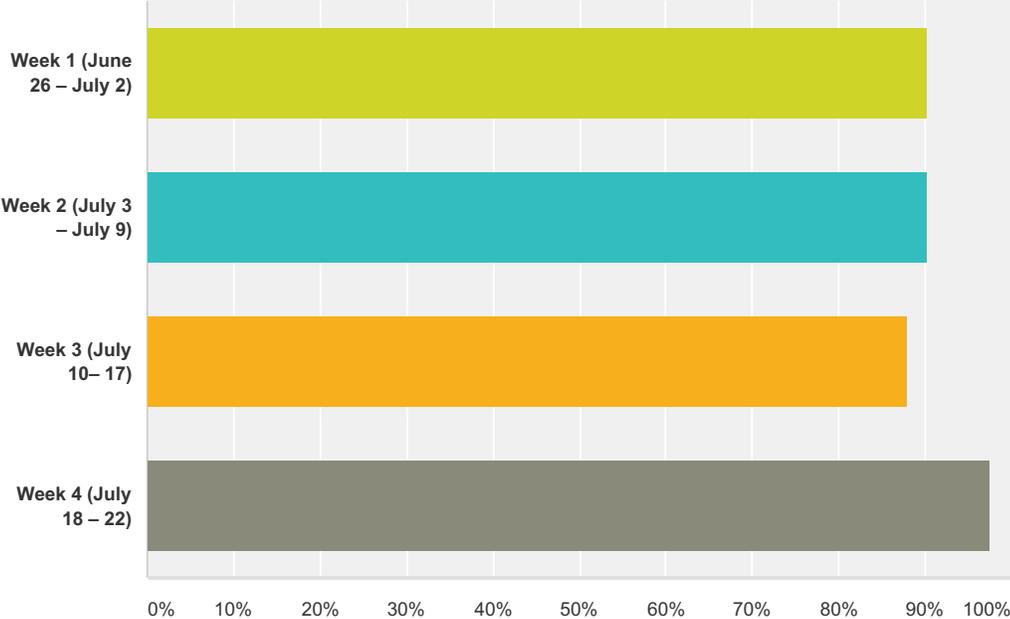
Answered: 41 Skipped: 0



Answer Choices	Responses
Graduate Student	65.85% 27
Post-Doctorate Researcher	34.15% 14
Instructor - Lecture	0.00% 0
Instructor - Tutorial	0.00% 0
Instructor - Research Group	0.00% 0
Total Respondents: 41	

Q4 Which weeks of the program did you attend the program? (Select all that apply)

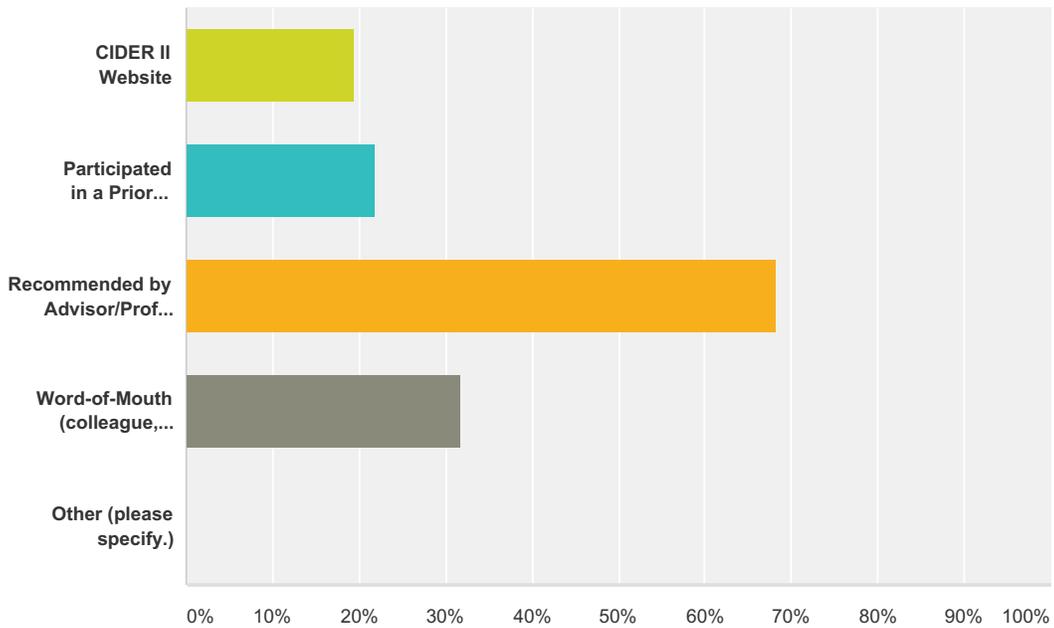
Answered: 41 Skipped: 0



Answer Choices	Responses
Week 1 (June 26 – July 2)	90.24% 37
Week 2 (July 3 – July 9)	90.24% 37
Week 3 (July 10– 17)	87.80% 36
Week 4 (July 18 – 22)	97.56% 40
Total Respondents: 41	

Q5 How did you hear about the CIDER II Summer Program? (Select all that apply)

Answered: 41 Skipped: 0

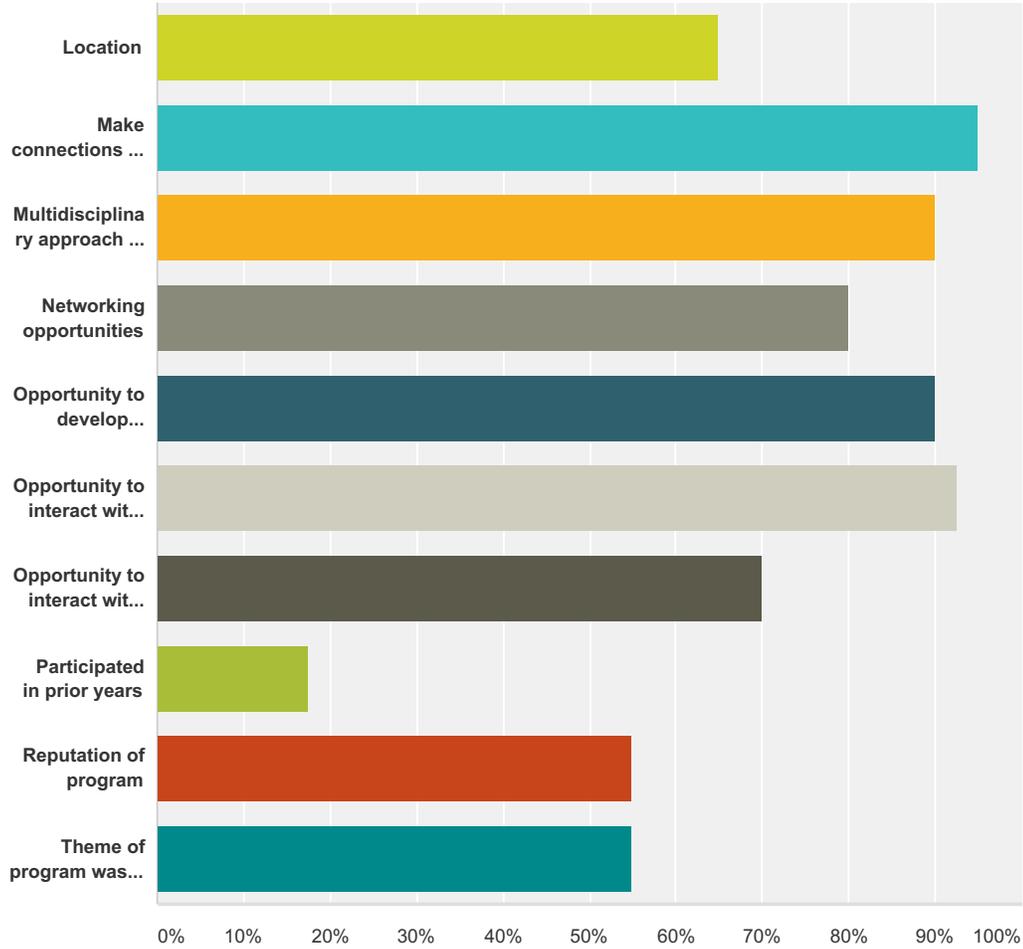


Answer Choices	Responses
CIDER II Website	19.51% 8
Participated in a Prior Institute	21.95% 9
Recommended by Advisor/Professor	68.29% 28
Word-of-Mouth (colleague, peer, etc.)	31.71% 13
Other (please specify.)	0.00% 0
Total Respondents: 41	

#	Other (please specify.)	Date
	There are no responses.	

Q6 What factors influenced your decision to participate in the CIDER II 2016 Summer Program? (Select all that apply)

Answered: 40 Skipped: 1



Answer Choices	Responses
Location	65.00% 26
Make connections in "solid earth" community	95.00% 38
Multidisciplinary approach of program	90.00% 36
Networking opportunities	80.00% 32
Opportunity to develop collaborative relationships	90.00% 36
Opportunity to interact with faculty	92.50% 37
Opportunity to interact with students	70.00% 28
Participated in prior years	17.50% 7
Reputation of program	55.00% 22
Theme of program was interesting	55.00% 22

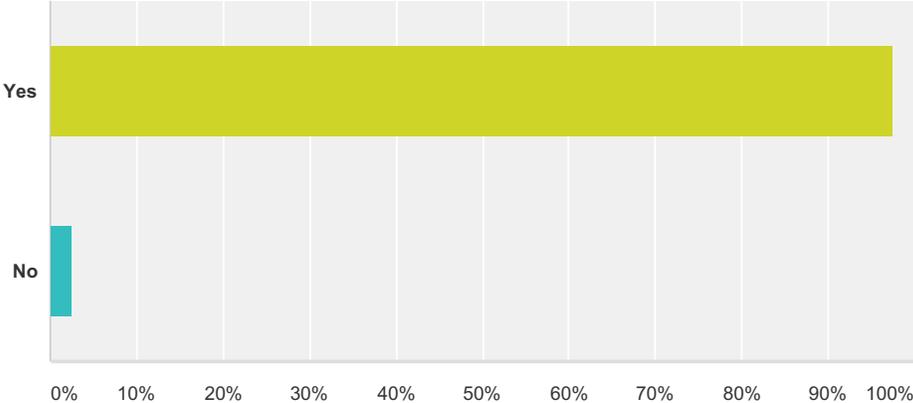
CIDER II 2016 Summer Program Feedback Survey

Total Respondents: 40

#	Please share any additional factors that influenced your decision to participate in the CIDER II 2016 Summer Program.	Date
1	Interest in getting broader perspective on solid earth and hearing about most recent research.	7/22/2016 9:15 AM
2	As I am moving from Post-doc to faculty, it was ideal to attend CIDER this summer to start some future more interdisciplinary projects. It was a great opportunity to find out the key questions being asked in the field and the directions that are of interest for the future.	7/22/2016 9:10 AM
3	Good foods	7/22/2016 9:08 AM
4	Recommended to me by more senior students in my department, who had already attended and benefitted from the program	7/22/2016 9:07 AM

Q7 Did you participate in the lecture and tutorial sessions?

Answered: 41 Skipped: 0



Answer Choices	Responses	
Yes	97.56%	40
No	2.44%	1
Total		41

CIDER II 2016 Summer Program Feedback Survey

Q8 Please share your impressions regarding the content of the lectures. Include any comments regarding the balance between disciplines and the balance between background information and cutting edge research presented.

Answered: 37 Skipped: 4

#	Responses	Date
1	The content was appropriate, basic, but provided ed the necessary background for the following weeks of work	7/28/2016 8:57 PM
2	The lectures were very good and well balanced between general content and research. Some of the general lectures were much more effective than others, and I don't know whether this was the preparedness of the lecturer or my familiarity with the field.	7/27/2016 7:32 PM
3	I think the lectures were well balanced.	7/25/2016 3:14 AM
4	The lectures where excellent. It was a great opportunity to learn what other people is doing in the different areas of geophysics and geology. The content of the lectures where a combination of fundamentals plus latest advances in the corresponding research area.	7/24/2016 10:10 AM
5	I think there was overall a proper balance in content between the different lectures. The fundamental lectures in week one were very helpful. However, I felt that the research talks were not entirely representative of all disciplines. For example, I cannot recall a research talk on the outer core. If possible, from a personal preference, I would have liked to see the integration of a few more speakers on both the outer and inner core.	7/23/2016 8:21 AM
6	I really enjoyed the structure and organization of the lectures. They covered the basics and are closed related to the cutting edge research.	7/22/2016 9:16 PM
7	Many of the lectures seemed to fall on a level between too advanced for someone not in the specific discipline and not particularly useful for someone that is involved in that specific discipline. However some lecturers did an excellent job providing the necessary background without getting bogged down in the details. In the future I would discourage lecturers from deriving equations for the audience, as it really isn't helpful for people outside of their discipline and everyone in their discipline already knows these equations.	7/22/2016 10:25 AM
8	The lectures were very interdisciplinary which allow to have a better understanding of other fields. To my opinion some lectures were a bit to general and could have focus more on a given idea. I think that the balance between the different fields is good. The research presentations were very interesting.	7/22/2016 9:32 AM
9	The content of the lectures allowed any participants to know more about the other fields of Earth sciences and to go back to the basic of them. So I found it was a really good start and all the disciplines were discussed equally.	7/22/2016 9:28 AM
10	The lectures where a really great opportunity to learn and catch up on the most cutting edge research in a field. Most of the lecturers put a lot of effort into both teaching the material as well as presenting important and interesting questions that are on the cutting edge in the field. I would say this portion of the program was the most rewarding. There was a healthy balance between the sub-disciplines.	7/22/2016 9:27 AM
11	The content was quite variable. Some talks were excellent and some were very difficult to follow. The best were the ones that avoided long complicated mathematical derivations. The worst were those that seemed like extended 1.5 hour research talks, which did not provide much background and seemed like they tried to cover the presenter's entire career worth of work instead of an introduction to the subject. Additionally, there seemed to be only minimal effort to address the theme of the workshop, "flow in the mantle". And as a geochemist, although I didn't come here for the geochemistry, I was a little disappointed in the scope of the geochemistry lectures.	7/22/2016 9:24 AM
12	I think the content across disciplines was fairly well balanced, and in general there was a progression from introductory to more advanced material along a particular series of lectures in one discipline. A minor suggestion would be to perhaps group the lectures in one discipline more closely in the schedule (ex. all the seismology lectures in one week instead of spread out over the two weeks).	7/22/2016 9:24 AM
13	The quality of the content varied depending on the speaker. Good balance but could have included petrology. I thought the balance between background and cutting edge research was good. Background information required presentation from good teachers and this was achieved by most.	7/22/2016 9:23 AM

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14	The balance of disciplines seemed appropriate. The balance of background and research also generally appeared apt. However, some lectures seemed significantly less well prepared than others.	7/22/2016 9:23 AM
15	The breakdown between disciplines was ok, but as I have participated in a previous CIDER, the content seemed fairly basic; it was nice to have a brief review, though.	7/22/2016 9:21 AM
16	Coming from a physics background, I thought the introductory lectures were great to get a handle on some key things needed to better understand the research talks. I felt the level 1 lectures were a good overview of the keys aspects. There was often a large jump between lecture 1 and 2 of a subject (say geochemistry or seismology). This might be due to not having time to go over all the lecture slides in class. The research talks were a great way to get an idea of the current research in the field. I thought they were presented with enough information to follow as a junior participant but with enough interest to engage senior participants.	7/22/2016 9:21 AM
17	A good chance to learn from different multidisciplinary contents from the foundation knowledge and how those knowledge related to the real research. All multi-disciplines are covered evenly and for each discipline, the difficulty degree are from easy to hard, which is great to follow.	7/22/2016 9:20 AM
18	The lectures are overall very good. However, I find some lectures are too basic, while others are too difficult to understand.	7/22/2016 9:18 AM
19	In general I think the lectures were engaging and informative - especially as someone relatively "outside" of this field, I greatly appreciated the crash course in a wide variety of topics. However, many of the lectures were too much content at too fast a rate; I understand that for someone more familiar with the topics this might not be true, but there were many lectures that I followed only tangentially. The lectures that I got the most out of were the ones that picked a specific, clearly delineated topic and expounded on it; the ones that I got the least out of were ones that tried to cover too many topics in too little time.	7/22/2016 9:17 AM
20	The content of the lectures was almost high quality and it was good that in each field there was a talk giving background information for those not familiar with the field. Then, it was also very interesting to see the very new research results.	7/22/2016 9:17 AM
21	The lectures were balanced between disciplines and the contents covered the concepts from the simplest to the most complex in a way that made it to follow.	7/22/2016 9:16 AM
22	Background information was most of the time well provided and made it possible to understand the content of the lectures, however it was sometimes lacking of theoretical background	7/22/2016 9:16 AM
23	The balance of disciplines was great. The worth of the content varied widely from speaker to speaker though. A number of the lecturers focused on very niche topics without providing the necessary basic framework for understanding them.	7/22/2016 9:16 AM
24	Most of the lectures are accessible to graduate students who's primary research area is beyond the topic. The lectures provide comprehensive background knowledge as well as cutting edge research.	7/22/2016 9:15 AM
25	In general, the content of the lectures was excellent, and pitched at about the right level for everyone in the room to follow. Given the makeup of the audience, it would have been nice to see a little more seismology-related lectures (deep earthquakes etc), but this is a minor point.	7/22/2016 9:15 AM
26	Lectures were extremely instructive, particularly the first week (basic stuff).	7/22/2016 9:15 AM
27	Overall, there was a fairly good balance between background and new research. I feel the lectures could have benefitted from some more coordination between instructors (i.e. there was a lot of overlap in the introductory material which could have been avoided. However, overall, I really enjoyed the lectures and learned a great deal.	7/22/2016 9:14 AM
28	They were basic level lectures of different field, which were nice for me to understand other fields.	7/22/2016 9:14 AM
29	Generally well balanced. 2 things can be improved in the future. 1. It would be great if lectures are easier to understand for students who are not familiar with them. 2. It would be great if there are some lectures about planets other than Earth.	7/22/2016 9:14 AM
30	I thought the lectures were great. Those that started from the basics and moved forward at a steady pace were the most informative. I feel this is an opportunity to learn about a broad range of disciplines that is not readily accessible at another meeting.	7/22/2016 9:14 AM
31	The lectures were generally well-organized, engaging, and many were pertinent to my research. They struck a good balance between laying out the basics and presenting new research. Some talks did not provide adequate background for those outside of the field, but most did.	7/22/2016 9:13 AM
32	The content of the lectures was generally very good.	7/22/2016 9:13 AM
33	Topics were well balanced. The level of the information was appropriate, starting at a more basic level and progressing.	7/22/2016 9:12 AM

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34	The lectures is very diverse, but maybe some more background information is necessary for some of the lectures.	7/22/2016 9:11 AM
35	The lecture is good starting from very basic knowledge and goes deeper to current understanding.	7/22/2016 9:10 AM
36	I think the lectures were great, but some of them focused on the presenter's individual research. It would have been nice if the lectures focused on the topic more to teach us the underlying physics and issues of the topic.	7/22/2016 9:09 AM
37	Lectures are generally good. I suggest more background introduction info could be provided, as most people are not exactly familiar with the field of the presenter.	7/22/2016 9:07 AM

Q9 Please share your impressions regarding the organization, structure, pace, and workload of the lectures. Please include comments about opportunities for interactive discussions, lecture styles that worked well, lecture styles that didn't work well, and the balance between lectures and tutorials.

Answered: 36 Skipped: 5

#	Responses	Date
1	The pace of the lectures requires exhaustive attention, but I think this is a good thing. It may be possible to allow the research group part to begin earlier and to move a few lectures later for more balance, but I am not sure that it is necessary. I came to the program with the intention of making notes about which lecture styles work well, and I came away with a definite conclusion about which lectures I liked, but no general conclusion about style. I prefer something that is not too general, but also not too specific, which is hard to do! The balance between tutorials and lectures was good.	7/27/2016 7:32 PM
2	It is unnecessary for the lectures to last 1.5 hours. I think 45 minutes is sufficient with a break or moving on to another talk.	7/25/2016 3:14 AM
3	Lectures can be a little intensive during the first two weeks, but it is understandable to do it like that as time is limited and the idea is to allow people to get research done. Regarding the styles of the lectures, I think most of the speakers tried to motivate their problems in general fashion, so that the people in the audience with no background in the area could follow. One thing that can be improved are the tutorial sessions. People seemed to be lost a couple of times.	7/24/2016 10:10 AM
4	The organization and structure was excellent. The balance between lectures and tutorials seemed appropriate. I think in weeks 3-4 there could have been a few more research talks, i.e. perhaps each day from 4-5 pm. I feel that would still leave enough time for work on the group projects.	7/23/2016 8:21 AM
5	I like the way it is, but kind of feel it is too long(2 weeks).	7/22/2016 9:16 PM
6	In the future I think it would be helpful if senior participants asked fewer questions during lectures, it often seemed as though the questions were meant to showcase their own knowledge and not clarify a point. This creates an environment that made me uncomfortable asking questions as a student with knowledge gaps. I also think it would be useful if lectures were 1 hour long with time for questions rather than an hour and a half followed by one or two rushed questions. The best lectures were those that spent the least amount of time trying to explain the gritty details of methodology and instead briefly explained how a methodology could be applied to a geological problem.	7/22/2016 10:25 AM
7	Most of the lectures were followed by interactive discussions. For some lectures, the content was so broad that the questions and the discussion were mainly about implications of the results. I would have appreciated to have more details about technical aspects of the studies that were presented to us. Generally, I appreciated more the lectures that were more formal. Concerning the tutorial, I discovered codes that I did not know about before and which may be useful for my research. Finally, I think that the question should not be allowed during the 10 first minutes of the lecture in order to let some time to the lecturer to develop the ideas.	7/22/2016 9:32 AM
8	I think the time spent into lectures is good for the first two week. It's good to have a mix of different disciplines each day. The tutorials were also a really good idea. The time for each lectures is also a good duration to go deeper into a topic but let some time to interact with other people.	7/22/2016 9:28 AM
9	The pace of the lecturers, and the workload were well balanced. Also, the allotted time, and the many opportunities to cycle through different fields made the talks easier to manage. Only a few of the tutorials failed to succeed with the balance of pace and workload, otherwise I would recommend that nothing to be changed.	7/22/2016 9:27 AM

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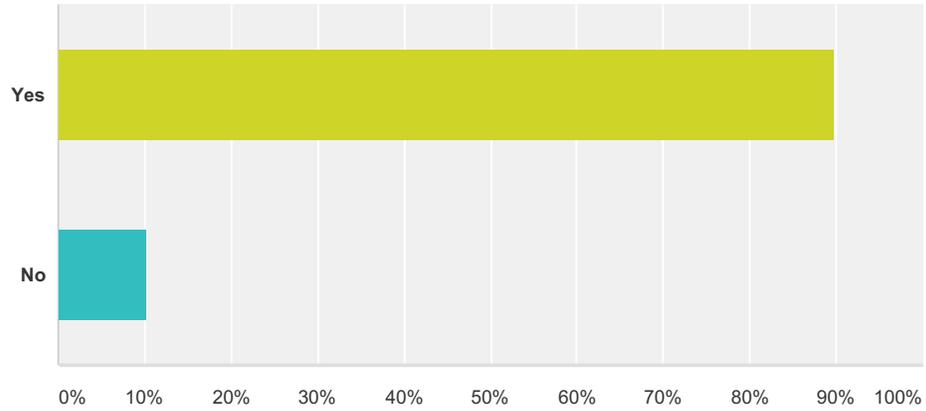
10	There seemed like there was only nominal effort to organize the lectures into a structure. That was fine as long as enough introductory material was given during the lecture. But there seemed like there was a struggle between giving introductory lectures and addressing the workshop theme. The lecture styles that worked the best avoided a lot of math and were really geared toward the people outside of the direct field. However this is sometimes problematic because when a lecture is truly introductory and for the benefit of the people outside the field, the audience members in the field often feel the need to comment and point out the simplifications and assumptions along the way, which can disrupt the flow and make people lose interest. The lecture styles that worked the least well were ones given as an opus of an entire career's worth of work without providing generalizations or other viewpoints.	7/22/2016 9:24 AM
11	The pace and workload was about right. The lectures that contained a sufficient but not overbearing amount of introductory material and which then proceeded to identify the open scientific questions in the particular subfield and explain the progress that was made towards answering them were the most enjoyable for me.	7/22/2016 9:24 AM
12	I thought there was good opportunity for discussion. Clearly needed to get graduates more involved but this is always hard. The best presentations came from those who had clearly organised or seemed to have given similar lectures before. Unorganised presentations and poorly formed slides were confusing and boring.	7/22/2016 9:23 AM
13	I think the balance overall was good. I tended to find tutorials either vastly too slow to the point of disinterest or difficult to follow. I think perhaps breaking into groups depending on background might have helped a little, especially with those tutorials that were programming based.	7/22/2016 9:23 AM
14	Slightly more interactive lectures would have helped, though this can be difficult first thing in the morning. The organization of the lecture topics seemed a bit random, one didn't really build off the previous lecture; many essentially the same introductory material which wasn't needed by week two.	7/22/2016 9:21 AM
15	It was clear to see the organization that was set out with the lectures and subject matter but this was not always realized ideally. Some of the tutorials seemed to come before we had enough background on the particular subject to really feel comfortable to explore the tools as our disposal. However, their use became clear upon further lectures. The pace for lectures 1 in a topic were usually slow and well presented. There was lots of discussion and questions. I felt the questions from faculty in other fields helped provide context on a subject if one hadn't studied it before. It helped tie together the different fields and why it might related to your own work. The normal modes lecture was very well explained in particular. It was a good pace and helped clear up some fundamental questions for a few of us. The introductory lectures were also good at setting up the key questions in deep earth research. Sometimes we got stuck as a group on a naming convention which seemed besides the point of the lecture, but someone (often Michael) would get us back on track. Michael also gave a great lecture on geodynamics which explained a subject I know well in a very clear and engaging way. It was fun to see how other people teach a subject you know well.	7/22/2016 9:21 AM
16	All lectures are well organised and the pace are easy to follow. All lectures had a lot interactive discussions and make the concept more clear. Most the tutorials are following the lectures given before, which is a great way to help people to have a further deep understanding.	7/22/2016 9:20 AM
17	all are good. lots of interactions, free lecture style.	7/22/2016 9:18 AM
18	I am not sure how the order of the lectures was chosen; I am not critical of it, but sometimes the back and forth careening between different topics was harder to follow than, say, a series of talks on a specific subject within a given day. I think that might help to build on prior knowledge, and allow someone to walk away at the end of each day with a more complete dataset. The lecture pace was highly dependent on the individual - there were some who went entirely too fast (S. Zhong, for example) and others who went at an excellent pace and clearly had the audience following them (L. Kellogg). The workload was intense, for sure, but I don't think that can or should be avoided - I learned more in a short period of time than I did in some semesters of my normal graduate study! Finally, what I have consistently found in many forums is that the presence of numerous faculty tends to dampen the student response. This occurs for two reasons: 1) faculty ask questions that are beyond the experience and knowledge that many graduate students (not all) have, and 2) faculty are far better at cutting in and demanding attention than graduate students are. I suggest that faculty are encouraged to keep their questions to a minimum before graduate students and postdocs have a chance to chime in, or potentially that graduate student questions are favored over those from faculty.	7/22/2016 9:17 AM
19	The workload of the lectures is very high, and especially in not familiar fields one need to stay focused. The schedule was very tied, but however, there were lots of opportunities for interactive discussions during coffee breaks, BBQ or lunch or dinner. The balance between lectures and tutorials was good, one tutorial per day is enough. Also, the order of lectures per week was well organized.	7/22/2016 9:17 AM
20	The schedule and organization of the lectures were fine. The breaks in between lectures created good spaces to comment the contents with both the faculty members and the fellow students. I think the tutorials were good, however, I would prefer that they were not excel spreadsheets.	7/22/2016 9:16 AM
21	The absence of time to work on our own research during the lectures time has been a bit difficult to handle with.	7/22/2016 9:16 AM
22	The pace of the lectures would really be improved by preparedness. For nearly all of the lectures, we got bogged down on details before getting to the bulk of the content.	7/22/2016 9:16 AM

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23	During the lectures, there are enough chances to have interactive discussions. Lectures of different topics are evenly distributed. And the workload of the lectures are not heavy. It might help to have more quiz during or after lectures.	7/22/2016 9:15 AM
24	The program was exceptionally well organized. Most of the lectures were well paced, and well received. In future some advice might be given about efficient ways to take notes, or about useful software that can help with note taking (e.g. dropbox paper, google docs etc)	7/22/2016 9:15 AM
25	Pace and workload totally fine.	7/22/2016 9:15 AM
26	The lectures were very good and informative. As a note on the structure, I would have preferred more short lectures (maybe two 45 minute talks instead of one 1.5 hour talk). I found some of the tutorials very useful, especially the convection-related ones and burnman. In particular, I appreciated the tutorials for the python practice they afforded. I was less interested in the excel-based tutorials.	7/22/2016 9:14 AM
27	Geochemistry lectures did not necessarily cover the very basic, i.e., what are refractory, earth rare elements, stable isotopes, and how they can be useful to study the solid earth processes. It would be nice to cover these so that we can understand the other parts of geochemistry lectures/talks.	7/22/2016 9:14 AM
28	Well organized. But it would be better if the schedule for projects was determined and announced before the workshop begins. As a first-time participant I had no idea what will be going on until the last moment.	7/22/2016 9:14 AM
29	I liked the structure. The long coffee breaks were good for discussion of ideas after each talk.	7/22/2016 9:14 AM
30	The lectures were generally paced well throughout the day. I wish there could have been more of a thread between the lectures -- some lecturers spoke about things that had already been taught in a previous lecture. The workload was fine.	7/22/2016 9:13 AM
31	The pace of the lectures was fine - some of the organization might have been improved in terms of lecture sequence. Also, some of the hands on tutorials were not very useful/difficult to follow. However, the work and effort to get a working version of a Virtual machine with the software is greatly appreciated.	7/22/2016 9:13 AM
32	The order of the lectures was somewhat jarring, switching between topics from session to session and day to day. Only having one tutorial per day made the additional homework manageable.	7/22/2016 9:12 AM
33	The lectures are well all organized, but it may be better if there was more instructions in some of the tutorials.	7/22/2016 9:11 AM
34	Lecture workload is low and very satisfying	7/22/2016 9:10 AM
35	I think all of that was great. The tutorials were awesome. I think more of those would be great. I really liked the style of Ved's, Maureen Long, Dan Shim, and Abby's lecture because they focused on the physics and current research in the field and the limitations.	7/22/2016 9:09 AM
36	I suggest the tutorial in the afternoon starts 30 min later, as many tutorials actually end earlier, so this will give people more time to rest after lunch and have brighter eyes and brains.	7/22/2016 9:07 AM

Q10 Were you comfortable asking questions or making comments during the lectures?

Answered: 39 Skipped: 2



Answer Choices	Responses	
Yes	89.74%	35
No	10.26%	4
Total		39

Q11 Please explain why you were not comfortable asking questions in the lectures. Is there anything the program could do to improve this aspect?

Answered: 3 Skipped: 38

#	Responses	Date
1	In the future I think it would be helpful if senior participants asked fewer questions during lectures, it often seemed as though the questions were meant to showcase their own knowledge and not clarify a point. This creates an environment that made me uncomfortable asking questions as a student with knowledge gaps.	7/22/2016 10:25 AM
2	I don't want to explain that	7/22/2016 9:17 AM
3	This did not happen always, but in some occasions, senior participants were discussing some of the controversial issues back and forth with speakers, which makes it difficult to ask basic questions.	7/22/2016 9:16 AM

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Q12 Please share your impressions regarding the content of the hands-on tutorial sessions.

Answered: 35 Skipped: 6

#	Responses	Date
1	I did not find them very useful. It is hard to learn to use a software in an hour and a half. In the end I did not need any of the softwares during the projects.	7/28/2016 8:59 PM
2	There was a wide discrepancy in quality between tutorials. First, the presenters should not speak the entire time. This came down, I think, to a level of preparedness. The best tutorials were those that were prepared to walk people through steps, handle program bugs if they appeared, and have everyone come away with an appreciation for how the tool worked and still allow a little bit of time to play around with the parameters.	7/27/2016 7:41 PM
3	The content was fine.	7/25/2016 3:15 AM
4	As I mentioned before, there is room for improvement here. Some of the tutorials where to vague and not well prepared. This lead to people to be distracted and loose their attention.	7/24/2016 10:13 AM
5	Most of the hands on tutorials were interesting and fun. However, several of the leaders did not appreciate that these tutorials were completely new to some people, and did not move at a slow enough pace. I understand the difficulty of integrating between the different programming languages that individuals prefer, i.e. python, matlab, excel, etc., but given the fact that this difference exists, I think more time needs to be given to slow down when trying to have participants use all different kinds of software. My favorite tutorial was that of Thorsten Becker's because he had a nice GUI that was easy to use and understand, along with nice instructions.	7/23/2016 8:24 AM
6	Kind of feel the tutorial is not necessary, it is good to share them as some specific toolkit but do not necessarily have to be in sessions.	7/22/2016 9:18 PM
7	Most of the tutorials provided an interesting look into a program or problem, but frankly given their brevity and relative "shallowness" I don't feel like I could use any of the programs showcased in a meaningful way. (other than those that I have already used).	7/22/2016 10:32 AM
8	Great content!	7/22/2016 9:36 AM
9	The tutorials all provided good tools to use if researching in that field. Some were more difficult to get a grasp on in the short time allowed. The large codes like BurnMan and Underworld seem like great resources for the future, but were hard to understand in a shot time. The goals of each tutorial were not always clear besides learning to use a tool. Measuring the thickness of sponges being squished was quite simple (in theory) but maybe provided the best example of difficulties in experimental work and a way to understand a fundamental part of theory.	7/22/2016 9:35 AM
10	The tutorials were really interesting.	7/22/2016 9:35 AM
11	In a lot of cases the content of the tutorials where interesting and engaging enough to sustain my participation. In others not so much. I observed that providing short exercises that audiences can relate to made the most successful tutorials work.	7/22/2016 9:31 AM
12	I appreciated the hands-on tutorial sessions because I got introduced to several useful software tools that I was not familiar with before attending the summer school.	7/22/2016 9:27 AM
13	Organisation was key. Unorganised practicals were hard to follow and people became bored and stopped engaging. Some also did not adequately allow for discussion or questions making it easy to get behind. These turned into 'demonstrations' with the speaker lecturing the entire session.	7/22/2016 9:27 AM
14	All Tutorial sessions consist of the background, knowledge and practical exercise. It is a great way for people to get to know how other disciplinary people deal with their data.	7/22/2016 9:25 AM
15	While it was nice to see different methods, there wasn't time to actually learn to use them well. I will probably just find someone who already knows how to use a technique or program if I need it in the future, rather than doing it myself.	7/22/2016 9:25 AM
16	I think the content was good but frankly I feel less likely to use a tool installed on a virtual machine than if I were to install it properly. I would suggest there also be a walkthrough and support for doing this in advance perhaps?	7/22/2016 9:25 AM
17	These were variable from excellent to largely useless.	7/22/2016 9:24 AM

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18	<p>Entirely hit or miss depending on the 1) person giving the tutorial, 2) the platform upon which the tutorial was based, and 3) the subject of the tutorial. I do not have the coding experience that many of my peers do, and - for example - though I got a lot out of the BurnMan tutorial, it took me repeatedly asking numerous first-order programming questions to even get the program working. I understand and encourage the point of "aiming high" but please recognize that some more basic instructions at the beginning go a long way. On the other hand, the Excel-based tutorial that Bill White gave was problematic in an entirely different fashion - the intent was straightforward but the instruction was not - and therefore I think Jasper Konter's tutorial was far better because it got rid of a lot of the banal minutiae while allowing us to actually answer a scientific question.</p>	7/22/2016 9:23 AM
19	<p>Most of the tutorials were good, and explained better what has been explained in the lectures.</p>	7/22/2016 9:23 AM
20	<p>I am not very interested in the tutorials. The reason is that I feel it is difficult to understand the details of the content within 1 hour of tutorials. If I would like to work on some problem, I will explore carefully myself or with the help from the experts. I am not comfortable using some tools that I do not fully understand.</p>	7/22/2016 9:21 AM
21	<p>I could imagine using some of the programs in the tutorial in the future (specifically burnman). I also enjoyed the content of the convection tutorials. For some other tutorials, I was less interested in the content of the programs, but still enjoyed building my familiarity with python.</p>	7/22/2016 9:20 AM
22	<p>Most were good, although some suffered from a little lack of clarity (e.g. the first geochemistry spreadsheet tutorial). Use of the Virtual Box for tutorials was a great idea to save time, but I think more help should have been offered to people who wanted to get the software working on their own systems - the virtual box was not much use in later research projects</p>	7/22/2016 9:20 AM
23	<p>I would like a bit more of lectures instead of some of the tutorials. For example, some geochemistry tutorials using excel sheet was not the most useful, it would have been better to listen to a talk regarding the same subject.</p>	7/22/2016 9:19 AM
24	<p>The content of tutorials were interesting and well consistent with lectures.</p>	7/22/2016 9:19 AM
25	<p>tutorials were sometimes not enough documented and end up playing with one software without understanding everything of it but at the same time it is difficult in little time to get to every point. Maybe it should have been nice to choose some tutorials we are more interested in to focus on them only.</p>	7/22/2016 9:19 AM
26	<p>I found the geochemistry excel spreadsheet tutorials horrible. It would probably be more useful to do some simple calculations by hand and then import the equations into a spreadsheet ourselves. The mineral physics and geodynamics tutorials were great- very useful.</p>	7/22/2016 9:19 AM
27	<p>The tutorial sessions are very helpful in terms of giving students an idea of how different types of research are conducted. It is also a good opportunity to learn about some scientific softwares.</p>	7/22/2016 9:18 AM
28	<p>The tutorial sessions that showed us how to use different tools/software were useful for the future. I enjoyed the sponges tutorial the most, getting hands on with an experiment was fun!</p>	7/22/2016 9:18 AM
29	<p>It is very helpful for knowing what are the tools available out there, but it feels like difficult to get comfortable using them in such a short amount of time.</p>	7/22/2016 9:17 AM
30	<p>Tutorials within virtual box were very nice - i learnt a lot. My favorite tutorial was the Underworlds one of L. Moresi. I struggled to keep up with the Excel geochemistry tutorials.</p>	7/22/2016 9:17 AM
31	<p>The content of the tutorials were generally good and informative, but some were a bit disorganized. It would be good in the future for the disorganized ones to have a more structured plan and concrete goal for people to accomplish in each tutorial, rather than just giving them a tool and saying "play with it!"</p>	7/22/2016 9:16 AM
32	<p>Most tutorials were based around interesting and useful topics and the tools introduced were ones that I would use again. Some tutorials were structured in a way such that the skills were not easily transferrable, notably those using excel.</p>	7/22/2016 9:15 AM
33	<p>Generally hands-on tutorial were fine except a couple which would have benefited from a bit more organization.</p>	7/22/2016 9:14 AM
34	<p>They were awesome. The geochemistry tutorials were difficult because I didn't really understand how I could apply it to my own discipline. I liked the other tutorials because they were flexible enough to different kinds of things.</p>	7/22/2016 9:11 AM
35	<p>Tutorial is very impressive especially for Burnman part</p>	7/22/2016 9:11 AM

Q13 Please share your impressions regarding the organization, pace, structure, and workload of the hands-on tutorials. Please include whether (a) the goals and expected outcomes of each tutorial were clear and (b) the tools were in place to successfully carry out the tutorial exercises.

Answered: 34 Skipped: 7

#	Responses	Date
1	Some of them could have used more guidance or a better introduction	7/28/2016 8:59 PM
2	The tutorials were generally well organized and the workload was not too much. I think it may be worthwhile to pick a programming language ahead of time and link participants to a pre-workshop tutorial (of which there are many). For any tutorials that do not need programming languages, Excel is the perfect tool. The goals of each tutorial were clear and the virtual box was an excellent tool!	7/27/2016 7:41 PM
3	The hands on tutorials needed a bit more introduction	7/25/2016 3:15 AM
4	(see above)	7/23/2016 8:24 AM
5	I feel the tutorial part is not necessary.	7/22/2016 9:18 PM
6	For some of the tutorials I was not even sure at the beginning what the program was supposed to do. It was very annoying that despite having a flash drive with the tutorials supposedly on them every single tutorial required a download of something else which just wasted time.	7/22/2016 10:32 AM
7	It was great to learn about new open-source codes. However most of the tutorials consisted in changing numbers before running again a code, but I do not know how it can be different.	7/22/2016 9:36 AM
8	The tutorials all provided the tools to carry out the exercises but there were some issues. It was unclear before hand if we needed to set up the virtual box which was usually slow and could be cumbersome to load. Also which of the many users on the virtual box to use was often unclear and lead to people being unable to run things (until it was realized they needed to switch users). The Burn-man tutorial was probably the best paced tutorial. It was easy to get it up and running. And we were able to proceed to answer the question without having to be fully comfortable in python. The first geochemistry tutorial was confusing and hard to follow. I might be unusually unfamiliar with excel, but I found the goal of the first tutorial hard to follow. Asking lots of questions to Jasper helped clear up some of the goals. The second tutorial with Jasper was easier to follow and the difficulties in geochemistry tradeoffs were more clearly understood. It was great that they both tied in together using an updated spreadsheet, so we could see how it was derived to begin with and then what to use it for. In the end it was useful but came across quite confusing at first. The geodynamics lectures had some issues with accessing the software to run Underworld which caused a lot of problems and meant we ran out of time to run through the exercises. It did introduce some new tools (like Jupyter notebooks) which could be useful themselves. However with the difficulties, I'm not sure if everyone was able to play around with a convection code which is unfortunate as it can be quite easy to see the effect of certain parameters with even a simple 2D code. However, it's nice to have a tool to use that can do much more complicated things than just a simple 2D code.	7/22/2016 9:35 AM
9	The goals and expected outcomes of the tutorial were pretty clear. For softwares like burnman or underworld, I think that more time is required to be able to "play" with different parameters but having a first introduction to them was really nice and allows us to use them later.	7/22/2016 9:35 AM
10	The tutorials were a good opportunity to get hands on learning experience with performing short exercises in most of the fields. I observed that tutorials with clearly defined activities and instructional guides, were the most successful. A couple of others were harder to follow, as the clear instructions on what to do was not provided.	7/22/2016 9:31 AM
11	Most of the tutorial facilitators did a good job of outlining the goals of each tutorial. However, I think in some cases there was too much time spent on setting up the software at the beginning of the tutorial. I realize that it might be difficult for the facilitators / lecturers to prepare step by step instructions in advance then send it to the participants, but that might be one way of addressing that.	7/22/2016 9:27 AM

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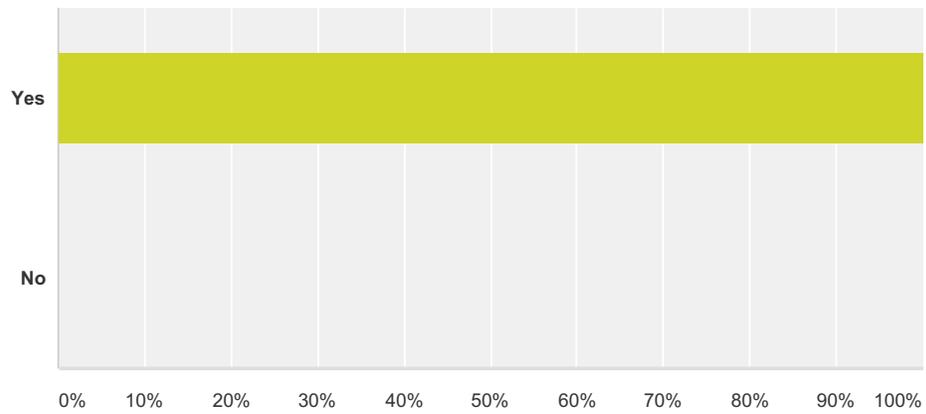
12	For 3/4 tutorials, the quality was very high and all aspects were carried out well. 1/4 failed to get people interested and completing any clearly defined goal.	7/22/2016 9:27 AM
13	I feel most tutorials are smooth and easy to follow and have the clear explanation on what we are trying to achieve. At the same time, the tools can be installed easily and have no trouble during the practice.	7/22/2016 9:25 AM
14	The goals and instructions were clear, but there wasn't enough time to actually understand what I was doing. I can follow the instructions and get the results, but I'll have trouble interpreting what the results mean and the robustness of the output.	7/22/2016 9:25 AM
15	(a) varied a lot between tutorials (b) yes.	7/22/2016 9:25 AM
16	In some, there was clearly a great deal of effort that went into organizing the tutorials. These were the most successful. Others seemed slapped together and lost my interest quickly. However, the distribution of a Virtualbox image to manage most of the computationally intensive tutorials for the most part worked extremely well.	7/22/2016 9:24 AM
17	Again, this was highly dependent on the person and the tutorial. The ones I got the most out of were ones that asked a simple question that was attainable to answer - W. Zhu and L. Montesi gave what I thought was the most rewarding and engaging example because it was paced appropriately and was possible to answer in the time allotted. The ones with more open-ended questions were still useful, but I think that a 1.5 hour tutorial requires more constraints to be more rewarding.	7/22/2016 9:23 AM
18	One tutorial per day is enough, I think, although the tutorials were never really difficult. The virtual machine was very cool, and it helped to run all needed programs without difficulties. However, the goal of the tutorials was sometimes not very clear, and there very too many exercises. Results were never really discussed. And the tutorial itself consist of changing a value in a program or Excel spreadsheet and look at the results.	7/22/2016 9:23 AM
19	The goals were clear, but sometimes too simple. The tools were useful to do the exercises.	7/22/2016 9:21 AM
20	For the most part, the goals of each tutorial were clear and could be carried out within the allotted time. I think the non-excel tutorials were more successful with this.	7/22/2016 9:20 AM
21	Typically the tools were in place, and it was evident that some of the instructors had put a great deal of time and effort into designing the tutorials. The workload for some (e.g. Burnman and inverse theory/tomography tutorial) was a little too high to be achieved within the time, but this was not necessarily a problem as participants could easily continue it in their own time. It would have been nice to have two Burnman tutorials - one to introduce the software and another to actually start using it to solve real-world problems.	7/22/2016 9:20 AM
22	organization, pace, structure, and workload were all fine.	7/22/2016 9:19 AM
23	The tutorials were not really helpful for me. I had no idea what should I do with the given tools. It could be very useful. If I was more familiar with those stuffs. It would be great if the manual or reading material was distributed before each tutorial.	7/22/2016 9:19 AM
24	The organization of the tutorial was sometimes problematic for computer problems, maybe it would have been nice to have set up the program before the beginning.	7/22/2016 9:19 AM
25	The tools were easy to use and ready to go for the tutorials. Sometimes the expected outcome was unclear, and it felt like an hour of turning nobs.	7/22/2016 9:19 AM
26	Most of the tutorial has a clear outline at the beginning. The tools are convenient to find/use	7/22/2016 9:18 AM
27	Some of the tutorials felt like lectures rather than tutorials. It would have been better to have less talking by the instructor, and instead given us the time to think through the tutorial ourselves at our own pace.	7/22/2016 9:18 AM
28	I think everything is very well balanced, except for the time given for some of the tools. It is a little more difficult for someone doesn't know anything about a field to quickly understand how the tools work. More instructions will be of great help.	7/22/2016 9:17 AM
29	Some of the tutorials had too much "playing around", which encouraged not actually doing anything. Having a piece of paper with clear tasks for each tutorial would maybe aid progress	7/22/2016 9:17 AM
30	In some tutorials -- namely about geochemistry -- I was a bit lost as to what the goals were. I never managed to get MatLab installed on my computer as it costs quite a bit of money, so I was not able to complete any tutorial that relied upon it.	7/22/2016 9:16 AM
31	The tutorials in which we were given a sheet of instructions and allowed to work through, with the instructor around for assistance, were the most productive. I learnt a lot less when I had to focus on the instructor working through the problem with the group as I could not explore the tools.	7/22/2016 9:15 AM
32	Generally, the tutorials were fine.	7/22/2016 9:14 AM

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33	Some of the tutorials met their goals and outcomes like the Burnman and seismology tutorials. All the tools were in place for each tutorial.	7/22/2016 9:11 AM
34	Structure of tutorial is very good. I don't like geochemistry tutorial though from EXCEL that make me very difficult to understand	7/22/2016 9:11 AM

Q14 Did you participate in the Research Group activities?

Answered: 41 Skipped: 0



Answer Choices	Responses
Yes	100.00% 41
No	0.00% 0
Total	41

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Q15 Please share your impressions regarding (a) the process of defining the research topics and (b) format of the research group activities.

Answered: 36 Skipped: 5

#	Responses	Date
1	The process of defining a topic was sensible and worked well. I would add that if faculty members think that a project is not viable, I would welcome them to re-frame the question. I think this did not happen enough at early stages. The research group activities were excellent, as they allowed the flexibility to design meetings around the needs of the group.	7/27/2016 7:49 PM
2	I appreciate that the senior members could help shape the question. I would appreciate more time for the research.	7/25/2016 3:22 AM
3	It was well managed. The senior participants allowed the students to choose the research topics and then offer guidance to refine the problem and come up with specific projects.	7/24/2016 10:27 AM
4	To me, this process works well and does not need to be changed.	7/23/2016 8:27 AM
5	I like the general structure and scope of the research groups.	7/22/2016 9:20 PM
6	Honestly the defining of research ideas was kind of disappointing, some ideas were put forward by students and then subtly mocked by the senior participants.	7/22/2016 10:39 AM
7	It seemed like a weird process to start. It was surprising that we were able to get topics from such an unorganized discussion. Starting with interesting questions was a good way to get discussion going. It was great how organically the different groups came together. One note might be that it was hard to explore the different groups in the short times we had available to discuss and pick research topics. It would have been nice to be able to involved in other projects as well, or at least given the chance to decide which group I would be most helpful in.	7/22/2016 10:07 AM
8	Fine.	7/22/2016 9:55 AM
9	(a) To me it was the hardest part of the CIDER. The main reason is that I do not think that we can define a good project in a such amount of time, especially a multidisciplinary study. An additional session of questions would be appropriate. (b) I think the number of presentations is appropriate.	7/22/2016 9:50 AM
10	I thought the process of group brainstorming over multiple sessions was informative, in the sense that we were able to gauge interest and also see what the senior faculty felt were most interesting questions to the broader community. However, rather than just asking questions, I think we should also ask for testable hypotheses too - this might help to better define the path that research groups take when they split up. This might also prevent research groups from getting together on a topic and realizing that there is no way to answer such a question or that the work has already been done.	7/22/2016 9:48 AM
11	The process of defining the research topic is the good one I think. Having a referee person is a good idea.	7/22/2016 9:44 AM
12	I think it's great that the organizers set aside time within the schedule for brainstorming on the research topics within the first two weeks. The pitfall for some groups it seems is that sometimes the projects do not have specific objectives that are achievable in a short amount of time. I like the format where the participants were mostly working on the projects for the last two weeks.	7/22/2016 9:38 AM
13	People discuss a lot on the same interesting subject from different disciplines and regular research updates meeting help people to understand other fields' aspect.	7/22/2016 9:35 AM
14	It would be good to describe how the research topics are formed at the beginning, which was done to some extent but was not clear. In practice student suggest an idea which goes under a group topic which then becomes a research area. This was obvious in hindsight but initially I thought there would be 50 opinions on very focused topics and wasn't sure how it would all be reconciled. Explaining this would have helped think about research 'themes' as well as a specific topic.	7/22/2016 9:35 AM
15	Starting with a first discussion of research topics at the end of first week, was a good idea. The stepwise narrowing down of the research topics from one week to another worked very well. I liked that senior participants weren't asked to propose question/research topics in the very first step of finding topics.	7/22/2016 9:34 AM
16	It was democratic, group led, and very interesting.	7/22/2016 9:34 AM

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17	(a) I think we need more time to define the research topic. I feel that some research topics are not well defined. For example, some topics are too broad, and will end up with nothing. (b) the format of research group activities are very good.	7/22/2016 9:32 AM
18	The process of defining research projects had clearly been constructed from years of experience and it worked well. I also appreciated the fact that the format of the program became much more unstructured during the research phase, allowing projects to grow organically and enabling students to switch if necessary.	7/22/2016 9:29 AM
19	I think Michael and the other organizers did a great job of shepherding all the ideas into reasonable categories. I also appreciated the support and flexibility of allowing the groups to evolve throughout the program.	7/22/2016 9:28 AM
20	The process of defining a research topic felt quite haphazard, but I think it ended up working very well. I enjoy the research topic that my group settled on, and, based on the final presentations from each group, other research groups settled on equally interesting topics with clear plans for moving forward. The research group activities were mostly unstructured, with some guidance from senior participants.	7/22/2016 9:28 AM
21	It was a different experience and I think the process of arriving to the research topic with the input of the faculty and other junior participants makes it easier to develop a well-thought and critical research project. And the participation of students and faculty from all disciplines is very enriching.	7/22/2016 9:28 AM
22	I like the basic idea of the research group activities, but the process of defining the research topics is still a little bit confusing. As a new participant, at the very beginning, I don't know how to better get involved in this process. It will be very helpful to be informed what is the process way before starting the discussion.	7/22/2016 9:27 AM
23	It was good opportunity to work with others who have different backgrounds. Interesting to see how the research topic evolves through discussions.	7/22/2016 9:26 AM
24	The research group topics had to be defined very quickly and there was little time for discussion with the other students before we began work. The irregular schedule with research talks and the working group meeting disrupted progress.	7/22/2016 9:25 AM
25	I thought the process of gathering research ideas was very open, inclusive and well organized. I did think that perhaps that process was started too early and that topics were too rigid before we'd heard all the lectures.	7/22/2016 9:24 AM
26	The process of defining topics generally flowed well. I came in with a research topic I was interested in before CIDER, and we ended up using it as the topic for our group, but there was a lot of discussion about other topics as well. The informal organization of the research group requires a junior or senior leader to help keep people organized, but I like the format as it makes the research seem much more collaborative rather than assignment-based.	7/22/2016 9:24 AM
27	This process evolves through a relative long time during the beginning of the CIDER, it is very helpful to have multiple chances of proposing and discussing different research ideas.	7/22/2016 9:23 AM
28	the time and way to define the research topics work really well	7/22/2016 9:23 AM
29	Both (a) and (b) were good.	7/22/2016 9:22 AM
30	Defining research topics went very smoothly for our group because we started off with an already pointed question. Some other groups had too broad of topics to start with. I think the blackboard brainstorm/discussion was an effective method overall, though.	7/22/2016 9:22 AM
31	Defining research topics/groups was maybe a little bit premature (or should be talked about starting earlier on!), as many people were totally undecided, but felt like they were being disloyal if they switched	7/22/2016 9:21 AM
32	The format of the research group was fine.	7/22/2016 9:16 AM
33	They were all great research topics. It was hard to choose groups because there were so many good topics.	7/22/2016 9:15 AM
34	We are in a highly productive group and with a lot of interactions from group members and senior participants	7/22/2016 9:14 AM
35	Very nice experience!!!	7/22/2016 9:08 AM
36	The research topic is well defined and the topic was very interesting for other Geoscientist (Seismologist Geodynamic, Mineralogist and Geochemist). It is a very wonderful experience, great interaction with different field expertise.	7/21/2016 9:55 PM

Q16 Please share your impressions regarding the group work styles or dynamics of your research group. Include comments regarding (a) the organization within the group and (b) the level of interactive discussions and opportunities to participate in the discussions.

Answered: 36 Skipped: 5

#	Responses	Date
1	Our group had good communication and collaboration. We had a good mixture of different fields and our tasks were well-defined at the outset. All group members participated in discussions.	7/27/2016 7:49 PM
2	Generally a positive experience with the subgroups having their own questions which can be solved on their own but also contribute to the work. Good participation and discussion.	7/25/2016 3:22 AM
3	Our group was a very diverse (mineral physics+ petrologist + geodynamicist+ seismologist). I think we where able to communicate our ideas clearly and come up with a project that we hope can be done within a year.	7/24/2016 10:27 AM
4	I understand that many groups work in different fashions. I feel that the dynamic of my group worked well. We had organized meetings twice a day to stay on task and review what we may have accomplished each day, yet we also were able to break into groups of 2 to tackle specific questions.	7/23/2016 8:27 AM
5	I like them.	7/22/2016 9:20 PM
6	My group had an excellent dynamic, there was lots of discussion and it was very open.	7/22/2016 10:39 AM
7	Our group had two approaches to answering our scientific question. We started out working together to answer a single question, but diverged over time to working on 2 separate parts of a bigger whole. There was no one person leading the group and forcing organization in one way or another. We all had the chance to focus on work on the question we wanted to do. This was a nice dynamic, but did mean it was unorganized and we didn't always know what the rest of the group was working on. There was lots of discussion about interesting directions, but it might have been improved if we had had some clear guidance on where to go and what to focus on. I think we had two very different ideas on what the problem we wanted to solve and how to solve it. Despite numerous discussions we never managed to bridge that gap very well.	7/22/2016 10:07 AM
8	I participated in more than one group, and found that the group run by students and postdocs, which was also the larger group, ran better than the one run by the senior participants. Overall, I think that the students and postdocs should take the lead on these projects and that the senior participants should take a more advisory role; I assume that is why the requirement is that students have passed the qualifying exam, we should all be able to drive a research project. The student and postdoc group ran very smoothly and we had several good discussions, and I am looking forward to continuing that project in the future.	7/22/2016 9:55 AM
9	I was in two different groups and the organization were completely different. One group had one faculty member whereas the other one had 6 or 7 faculty members. I think that several faculty members imposes a more rigorous approach and gives an idea of what it feasible and what is not, it also increases the level of interactive discussions.	7/22/2016 9:50 AM
10	I participated in two groups with vastly different styles. One was entirely student-driven with minimal faculty input, and the other was guided far more by faculty. In a heartbeat, I would choose the student-driven approach again; it took us a bit longer to define a scientific question, but it allowed us to make our own mistakes, check with faculty as we felt appropriate, and address issues/problems that we ourselves identified - and ultimately I think we yielded a quality product that we could own (even if it was not perfect, by any means). In contrast, the faculty-driven group often felt as if the students were there to do the grunt work to address the question that the faculty set out. It also reminded me of my qualifying exam, in which faculty grilled students over a breadth of knowledge - but unlike my quals, it was clear that we simply could not read all of the papers and do all of the calculations over two weeks, so it felt adversarial and frankly demeaning at points when the answer was not perfectly given. I don't necessarily expect faculty to be nurturing - and I think having faculty frankly and honestly challenge the students on what they had done is important - but this group felt particularly "uncollaborative" in a student-faculty sense.	7/22/2016 9:48 AM
11	In my group, we were mainly students so we organized by disciplines and interact between us.	7/22/2016 9:44 AM

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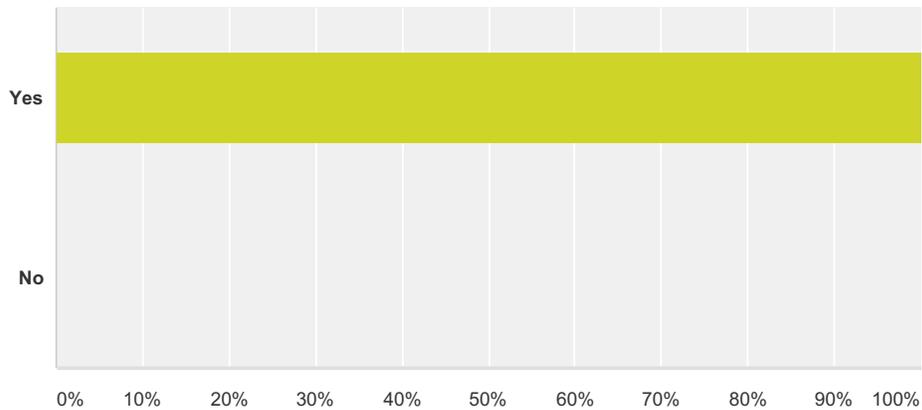
12	Given the interdisciplinary nature of the projects, I think it's only natural that in practice the groups would divide into smaller groups that work on only one aspect of the project. It's when there isn't clear communication between these subgroups that managing the project becomes a challenge.	7/22/2016 9:38 AM
13	In the group we have students and pos-doc from different disciplines, the specific research work will be done with professors' help in their own field. And the group will have a research updates everyday and can ask questions freely in any fields.	7/22/2016 9:35 AM
14	I enjoyed the group work and thought it was carried out well. Had I known more about the process I would have liked to bring more of my own tools with me to help carry out the research.	7/22/2016 9:35 AM
15	Although my group was very big, we were well organized, and discussed a lot our project. We divided into smaller group for each discipline, but finally, it was an interdisciplinary project, and we worked well together.	7/22/2016 9:34 AM
16	Every participant got an opportunity to contribute to the discussions, and we got very useful input from senior participants. The dynamic amongst the groups was also very comfortable enough to allow this interaction (given the many informal opportunities)	7/22/2016 9:34 AM
17	(a) my group is not very well organized. one reason is that it is too big (b) oftentimes, there were only several people in the discussion, while others do not understand what's going on	7/22/2016 9:32 AM
18	There was plenty of opportunity for interaction between students and faculty, which was important in the progression of the research projects.	7/22/2016 9:29 AM
19	My group worked extremely well together. The junior participants were quite motivated and helped each other learn, and the senior participants were eager to step in when we needed help.	7/22/2016 9:28 AM
20	Our group was a large mix of mostly seismologists and geodynamicists. We split into three subgroups early on (which later merged and reformed several times), so we mostly worked in groups of 2-3. For the most part, discussions were fairly interactive, although many of the subgroups began moving in different directions in terms of plans for future work (those discussions tended to be more isolated).	7/22/2016 9:28 AM
21	The group that I belong to had a great leader which made it easier to the other participants to know what our roles were. We met and worked every day over the last two weeks and that allowed us to develop the project thoroughly with a lot of opportunities to discuss our own points of view.	7/22/2016 9:28 AM
22	I am in a small group, so I was well involved in all of the discussions. The only thing that could be improved is to better balance the involvement of senior participants. Sometimes the whole group is easily influenced by a couple of senior participants' ideas.	7/22/2016 9:27 AM
23	Certain field was dominant in the group due to their majority of the number of people, killing the other few people's voice in different fields.	7/22/2016 9:26 AM
24	Discussions were frequent and useful, but the quality depended heavily on who you were working with. Having blackboards all around the building facilitated discussions. Asking people to act as a contact for the first meeting of the groups lead to that person being expected to direct the whole group.	7/22/2016 9:25 AM
25	The group dynamics was perhaps the most testing part of the 4 weeks. We had a lot of enthusiasm and ideas in our group which was great but we lacked a clear common focus/direction. A case of too many cooks in the kitchen. Having an authority figure or designated leader in the group probably would've helped.	7/22/2016 9:24 AM
26	The group had good discussions and was organized as much as it needed to be. The one drawback is that our group found the library to be a poor working area, so often portions of the group migrated to the KITP courtyard or other areas. The courtyard also allowed for greater opportunities for senior faculty to stop by and provide input, which was extremely valuable. Visibility to other CIDER participants and a good group working space ended up being very important and I feel that the library was not a good location to fulfill these requirements.	7/22/2016 9:24 AM
27	The senior participants played an important role of organizing the group discussion and giving advice on during the process. It is very helpful to work with participants with different background.	7/22/2016 9:23 AM
28	Our discussions have been interactive and everybody always felt free to talk and share his ideas, meeting at some point of the day made it more efficient to settle a plan of work and outlines for the day work	7/22/2016 9:23 AM
29	(a) and (b) both were good.	7/22/2016 9:22 AM
30	Organization was great- we had work divided up evenly amongst everyone. Discussions were inclusive, productive, and frequent.	7/22/2016 9:22 AM
31	In our group, I sometimes felt like the voice of the junior people was being drowned by that of the senior people, which was slightly frustrating as I felt like the junior people had very good contributions.	7/22/2016 9:21 AM
32	It would have been beneficial for certain research projects to have the senior participants help organize the group questions and tasks early in the project time-frame.	7/22/2016 9:16 AM

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33	I think the organization was good because there is generally a defined student leader, but I think there should also be a defined senior member leader just to be there when the student might struggle. Sometimes the senior participants float around which is great! However, there should be a defined junior and senior leader, but the junior member should be mostly running things but my fear is that all of the senior faculty may abandon a group.	7/22/2016 9:15 AM
34	Organization is good. However some senior participants left too early	7/22/2016 9:14 AM
35	(a) very good (b) very good	7/22/2016 9:08 AM
36	This group has a most expertise from Seismologist Geodynamic, Mineralogist and Geochemist. Senior participant play an important role to make work more dynamic and good remark. We learn a lot for them, Thanks to CIDER and KITP.	7/21/2016 9:55 PM

Q17 Do you have a clear understanding of your role and contribution to the project, at this point in time?

Answered: 41 Skipped: 0

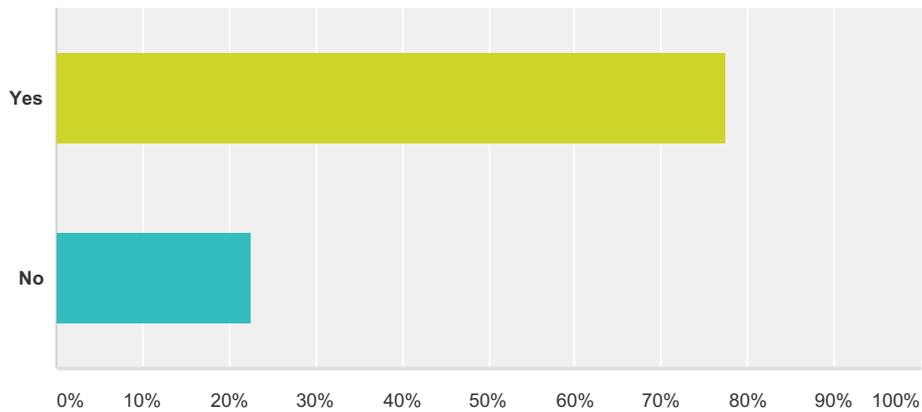


Answer Choices	Responses
Yes	100.00% 41
No	0.00% 0
Total	41

#	Please explain if you wish to.	Date
1	Collect literature and define an appropriate model for conditions for precipitation of oxides out of the core. At CIDER, this effort was hindered by the lack of available literature and data. The models are necessarily very simple. Future work may include more sophisticated models, as solubility data becomes available.	7/27/2016 7:49 PM
2	I am trying to better understand the role that ocean plays in rafting heat and materials from the core to the ice shell of Enceladus.	7/25/2016 3:22 AM
3	Our goal is to understand the dynamic effects of metastable phases in subducting slabs. My contribution to the group was to generate the elastic moduli, velocities and densities of different upper mantle minerals and aggregates. Communicating with the petrologist is fundamental, as they provide the bulk compositions that need to be calculated.	7/24/2016 10:27 AM
4	I helped focus on one approach to our project which was to answer a question rather than the data driven approach of the rest of the time.	7/22/2016 10:07 AM
5	I worked on the seismological part.	7/22/2016 9:44 AM
6	In general my group was supportive and people contributed roughly equal volumes of work.	7/22/2016 9:29 AM
7	I lead the discussions, directed the research, and then collated the result, while filling in the gaps of whatever was not done.	7/22/2016 9:25 AM
8	I helped to propose the topic, provided much of the basic underlying code to tie together the modules developed by group members, and will continue to work on specific modules with other members into the future.	7/22/2016 9:24 AM
9	1/2 of the mineral physics part of the project	7/22/2016 9:22 AM
10	We want to make multi discipline in solving one single problem	7/22/2016 9:14 AM

Q18 Were you able to make significant progress on your project while at CIDER II?

Answered: 40 Skipped: 1



Answer Choices	Responses
Yes	77.50% 31
No	22.50% 9
Total	40

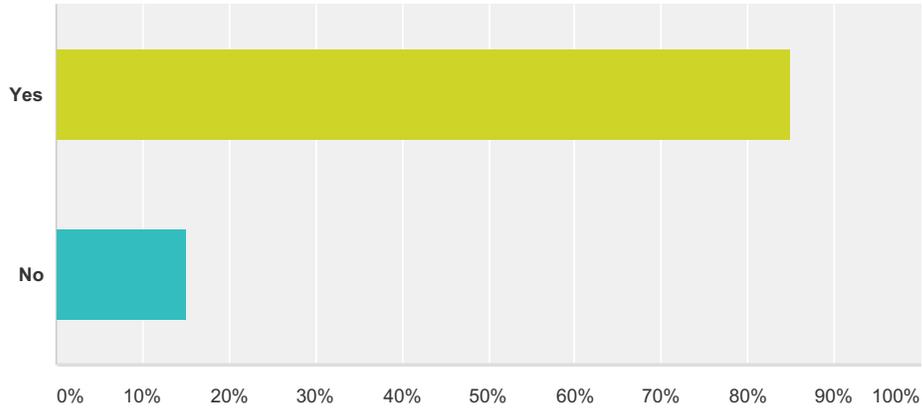
#	What do you think would help make this process smoother?	Date
1	Having some time during the first two weeks allocated specifically to read papers about the different topics	7/28/2016 9:03 PM
2	The process went smoothly, and I am happy with the progress given the amount of time we had.	7/27/2016 7:49 PM
3	Nothing. The question/topic was a difficult one.	7/25/2016 3:22 AM
4	Having the opportunity to gather with the people of the group. It allows to get things done faster.	7/24/2016 10:27 AM
5	The question above (17) is difficult to answer. I consider significant progress a great deal of work that is heading towards a publication. With my research question, this was almost certainly not do-able by anyone in a 2 week framework.	7/23/2016 8:27 AM
6	A stronger guiding presence of a senior member might have helped keep us on track or made sure we were all working towards the same goal. No one wanted to stop another from working on the type of science that interested them, but I think we were left with many parts of a project with no complete answer or goal.	7/22/2016 10:07 AM
7	More uninterrupted time.	7/22/2016 9:55 AM
8	Having different opinions from several seismologists.	7/22/2016 9:44 AM
9	In the case of our group I think closer coordination between the senior participants would have helped in focusing the efforts of the junior participants.	7/22/2016 9:38 AM
10	continue emails changing and communication once one person has updates, and if possible, people can be together to continue work on this project like half year later will be better.	7/22/2016 9:35 AM
11	More interaction between groups early on.	7/22/2016 9:35 AM
12	We had a not very well formed research topic, with very little background on what work had been done in previous CIDER	7/22/2016 9:34 AM
13	I think a very focused research topic will be better.	7/22/2016 9:32 AM
14	A more well-defined question, and the ability of all members of the group to use Python	7/22/2016 9:29 AM

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15	Honestly, some additional guidance from the senior participants would have helped somewhat, since the students working on the project were in general completely unfamiliar with the subject we were working on. However, their distance actually allowed us to explore the subject on our own and learn about it through trial and error, as opposed to being told to do it a particular way. This probably stymied our progress somewhat, although I think we gained a richer understanding of the subject because of it. So this is not really a complaint.	7/22/2016 9:28 AM
16	I was surprised by the amount of progress we were able to make in such a short time - things went quite smoothly	7/22/2016 9:28 AM
17	I think the environment and process are great. A little more discussions with senior participants during those weeks would have been good.	7/22/2016 9:28 AM
18	If the topic is better defined at the very beginning, we may have the time to work on it more.	7/22/2016 9:27 AM
19	A more regular schedule for the following two weeks. Being encouraged to ask a specific question rather than just choosing a vague topic. Being in a room other than the courtyard. The courtyard was often noisy and distracting with people moving through it often. Research group meetings were often disrupted by other groups using the same space.	7/22/2016 9:25 AM
20	A better group work space with outlets, tables, blackboards, and visibility to CIDER participants.	7/22/2016 9:24 AM
21	talking frequently with other people and finding senior participants to ask about controversial point	7/22/2016 9:23 AM
22	critical appraisal from faculty	7/22/2016 9:21 AM
23	I think it's great if you can visit cider with the problem you have. So you don't get lost with other people's ideas.	7/22/2016 9:14 AM

Q19 Given your other research commitments at your home institution, will you be able to continue working on this project?

Answered: 40 Skipped: 1



Answer Choices	Responses
Yes	85.00% 34
No	15.00% 6
Total	40

#	Please explain if you wish to.	Date
1	I am not the leader of the project, so it will be easy to continue it on the side	7/28/2016 9:03 PM
2	It is related to my current work.	7/25/2016 3:22 AM
3	I think that this project is somewhat related to what I've been doing here at my research institution. Therefore, I expect that I will be able to keep contributing to the project.	7/24/2016 10:27 AM
4	Since I'll be starting at a new institution, I am ideally placed to continue working on this project started at CIDER. It's unclear how the direction will go given our two very different pieces to this project.	7/22/2016 10:07 AM
5	Hopefully.	7/22/2016 9:55 AM
6	I would like to continue working on this - but as a 5th year PhD student, I doubt I will be able to keep it up. I will try though!	7/22/2016 9:48 AM
7	I hope I will have time. I'd really like to finish this project.	7/22/2016 9:44 AM
8	I hope I can do it, but probably, it will be work to be done at the weekends.	7/22/2016 9:34 AM
9	I would like to continue work on the project. However, I plan to ask some (1-2) people in the group to form smaller group and work on very well defined project.	7/22/2016 9:32 AM
10	Potentially, yes. I will at least try to continue to develop some of the software tools that we started writing during this project	7/22/2016 9:29 AM
11	At least I hope to.	7/22/2016 9:28 AM
12	I am motivated to continuing developing the project and to collaborate with the new network of disciplines that this experience created	7/22/2016 9:28 AM
13	The amount of work necessary for this project is low, but I will either have to learn the tools or encourage others to continue their work.	7/22/2016 9:25 AM

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14	I think there is a small amount of additional work that we can do to make this study publishable in a letter.	7/22/2016 9:24 AM
15	I would say "Maybe". I would be able to continue working on this, but am somewhat unsure whether we have stuff that's worth working on (i.e., i'm unsure how significant our work is)	7/22/2016 9:21 AM
16	Make more connections with group members and work together sometimes later	7/22/2016 9:14 AM

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Q20 Please share your impressions on the connections and network opportunities with graduate students/postdocs/faculty. Please discuss the connections that you made at CIDER II, and those that you plan to follow up with in the future.

Answered: 36 Skipped: 5

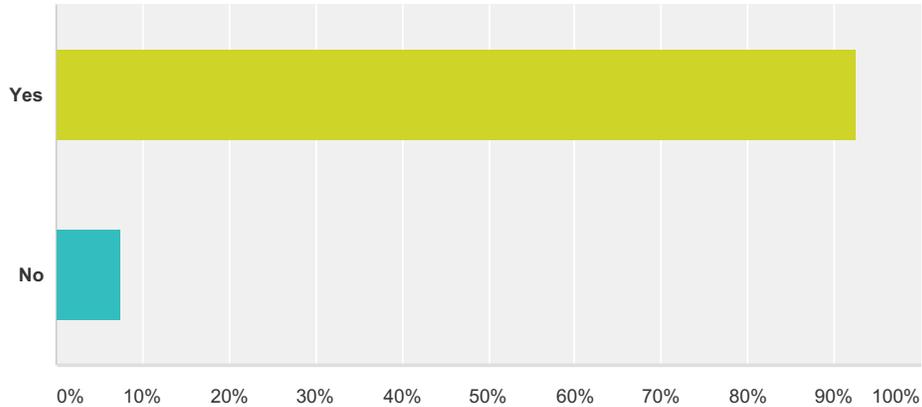
#	Responses	Date
1	I now have new connections with postdocs and students, both from my research group and outside. I didn't not have a chance to make new connections with faculty because there were not many faculty members in our group	7/28/2016 9:05 PM
2	I feel that I made friends with future colleagues and was able to receive valuable input about CIDER projects and my own research from senior faculty. I know I will be following up with graduate students, and have invited people to come visit during my research group's experiments at Lawrence Berkeley Lab. There were several faculty members that I would like to follow up with at conferences (e.g. AGU) about my career goals and paths to achieve them.	7/27/2016 7:59 PM
3	Met a lot of the current and future contributors in many fields.	7/25/2016 3:23 AM
4	Such an interdisciplinary environment allows to generate plenty of collaborations. Of course, the idea is to work with the people from my research group in the future.	7/24/2016 10:33 AM
5	I think CIDER is a wonderful opportunity to make connections with students/faculty, etc. in multi-disciplinary fields related to Earth dynamic research. Doing so was definitely my favorite part of CIDER. All of the junior and senior participants at CIDER were just wonderful in my opinion and even socializing at lunch daily was a great opportunity for discussions.	7/23/2016 8:29 AM
6	The environment is very friendly and time schedule is well organized. I have all the chances to talk to professors I wanted to talk to. And It is amazing to meet so many graduate student in the same field. I had worked with many of them and I will continue to keep up these connections after I went back.	7/22/2016 9:22 PM
7	CIDER provided excellent opportunities to network with students and faculty from around the world, both within my discipline and outside of it.	7/22/2016 10:43 AM
8	It was a great chance to meet many faculty I knew by name but had not had the chance to interact with. I discussed with a few faculty some new research directions I was interested in as a result of the talks and discussions. I'm hopeful we can follow up on some of these ideas and see if a project is available in the future. I was also good to interact with students and postdocs (at my level) to see what new work is being done and also get ideas for future postdocs/students I will be hiring. It was a good mix of people from different institutions which helped widen connections and networks.	7/22/2016 10:13 AM
9	Good. I plan to continue with the research project started at CIDER, and collaborating with people that I met here.	7/22/2016 9:55 AM
10	CIDER allows to meet other people from Earth sciences and to know who are the people with who a collaboration may be possible and with who it would not. I think that it will help to make connections during future conferences.	7/22/2016 9:54 AM
11	I enjoyed meeting lots of new graduate students, post docs, and faculty - but the vast majority are outside my field, so I think my future connections with them will be limited to meetings rather than collaborations.	7/22/2016 9:50 AM
12	I think CIDER is good place to make connections. I met a lot of people either students or faculty. I think I will keep working with my research group. I will also follow the work of people studying topics I am curious about.	7/22/2016 9:50 AM
13	I made connections with other participants working on disciplines that don't have a significant presence at my institution so I definitely learned a lot just from informal discussion. I am probably following up with the members of my group on continuing our project in some form.	7/22/2016 9:45 AM
14	Making connections was easy at CIDER because of the range of activities we become involved in, i.e. social, research, science discussions. I will follow connections with other students made during the research groups. I hope to find work with some of the senior participants in my field in the future.	7/22/2016 9:40 AM
15	The communication atmosphere is free and you will be able to meet a lot of people from different fields which is great.	7/22/2016 9:37 AM

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16	I was able to meet a lot of senior colleagues and peers, who are now part of my network. A couple of them I'll be interacting with in the very near future, giving talks, discussing more about potential collaboration opportunities amongst other things.	7/22/2016 9:36 AM
17	There were a lot of opportunities for networking during coffee breaks, lunch, dinner and BBQs.	7/22/2016 9:35 AM
18	I definitely appreciated the large amounts of scheduled unstructured time (e.g. long coffee breaks, lunches, group dinners, etc.). There was clearly an effort by the organization to foster personal connections.	7/22/2016 9:33 AM
19	Great opportunities were given to meet and communicate with other people. But, it would be even greater if there is some dinner events that students/postdocs and faculties have to sit together and have a chance to talk to each other. e.g. Designated seats for 3 students and 3 faculties in one dinner table considering different fields. And next time will be with different members and so on.	7/22/2016 9:32 AM
20	CIDER provides an excellent - perhaps invaluable - opportunity for networking and collaboration between students and faculty. As a graduate student this has been very important to me. I have participated in a number of workshops, but this is really the only one where I feel like I have made genuine connections with faculty members.	7/22/2016 9:32 AM
21	I talked to a lot of graduate students and postdocs during the workshop. Some of the discussions helped a lot about my own research. We will definitely discuss more through emails or phones in the future.	7/22/2016 9:31 AM
22	The networking opportunities at CIDER were plentiful. In particular, I think my research group plans to continue working together in the future	7/22/2016 9:30 AM
23	This was a great opportunity to meet people I would be interested to work with in the future. Specially to add multidisciplinary to my own work.	7/22/2016 9:30 AM
24	Sharing meals with the faculty made for many interesting discussions. As a postdoc, I felt like faculty were more willing to discuss research ideas with me.	7/22/2016 9:28 AM
25	I think CIDER was great for expanding my network within the community, especially with disciplines that I don't typically interact with as much, but who have similar interests to mine. I have formed several new connections/collaborations for the future.	7/22/2016 9:28 AM
26	CIDER provides an unique opportunity for making connections with scientists of different levels. The group lunch/dinner allows an interaction at deeper level.	7/22/2016 9:26 AM
27	CIDER is great for networking -- it is a very collaborative and open community with many repeat attendees. This allows for strong professional relationships to form over both the 4 weeks and going into the future.	7/22/2016 9:26 AM
28	As a phd student connections made at CIDER make it possible to give me a clearer idea about potential further research interests and person to contact about it possibly for post-doc	7/22/2016 9:26 AM
29	As a new grad student, I made many new connections with students, postdocs, and faculty alike. Some of the most valuable connections, I think, are the ones within my group. Our senior participants were helpful and easily accessible for any questions or discussion that came up. I also got a sense of cross-disciplinary researchers who have some interest in my own "home science" for possible future collaborations.	7/22/2016 9:26 AM
30	I have met many fellow students, and postdocs, which is very nice. Also, it was nice to talk to many faculty members, especially ones that I have been wanting to meet and ask questions/discuss some scientific issues.	7/22/2016 9:25 AM
31	Made many connections, particularly with junior people who I'll likely collaborate with. Networking with faculty was maybe less significant that I expected.	7/22/2016 9:24 AM
32	I made many great connections with faculty in the group activities because sometimes it's easy for a student to go unknown for a while unless they are given an opportunity to work with these faculty. It was a really nice way to meet senior members that wasn't as hard as a normal conference. I also made great connections with other students because I saw them and ate with them everyday. I am planning on starting at least two projects once I leave here.	7/22/2016 9:18 AM
33	I have been able to interact with a number of faculty/students/postdocs at CIDER and it has been a great experience.	7/22/2016 9:17 AM
34	Be prepared for Cider and bring your questions. Hoping somepeople can help you understand more	7/22/2016 9:15 AM
35	Connections are the most important	7/22/2016 9:09 AM
36	I am very looking forward meet again, the interaction with student and senior participant was impressive.	7/21/2016 9:59 PM

Q21 Did the connections you made in the CIDER II summer program help you in generating new ideas for research?

Answered: 40 Skipped: 1

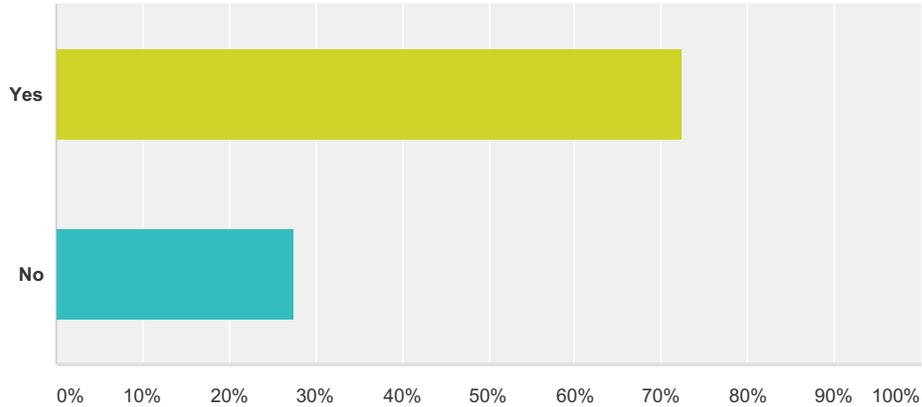


Answer Choices	Responses
Yes	92.50% 37
No	7.50% 3
Total	40

#	Please explain is you wish to.	Date
1	I am much more familiar with the dynamics and material properties of the lower mantle after this CIDER. One new topic that I am particularly interested in is how the redox conditions of the mantle may have changed through time.	7/27/2016 7:59 PM
2	Yes. Not quite a different are, but different to what I've been doing in my research.	7/24/2016 10:33 AM
3	Based on some of the discussions during and after talks, I have a few questions of my own which I'm hoping to pursue to help explore other related fields to my current research. It was nice to generate some new ideas which allow for collaboration with other fields rather than just focusing on a single approach (say in geodynamics).	7/22/2016 10:13 AM
4	I generate a lot of new ideas through discussion with other people, and through the lecture.	7/22/2016 9:34 AM
5	With the exception of the research project I worked on. But in general, as a geochemist, I was a little disappointed in the level of the geochemistry lectures and tutorials so I did not gain much in that area.	7/22/2016 9:33 AM
6	Coming from a relatively small institution, hearing fresh perspectives on my research was very beneficial	7/22/2016 9:30 AM
7	Each day during the talks I would write down new papers to read or topics to explore. However, there was insufficient time during CIDER to explore them.	7/22/2016 9:28 AM
8	I am a dynamicist, but have an idea for a project involving normal mode seismology that came to me during one of the lectures on the topic.	7/22/2016 9:26 AM
9	New insights on fields which are not strictly speaking mine made it possible to refresh my view on my topic and think about new possibilities to test	7/22/2016 9:26 AM
10	As a young graduate student, it was a great way to learn about the research process from its infancy.	7/22/2016 9:18 AM

Q22 Do you plan on pursuing new areas of research or going in some different directions in your research as a result of your participation in the CIDER II Summer Program?

Answered: 40 Skipped: 1



Answer Choices	Responses
Yes	72.50% 29
No	27.50% 11
Total	40

#	Please explain if you wish to.	Date
1	The above topic is already a research goal of my group, but I had not given it much attention before, since it is not directly related to my dissertation topic. I am much more interested after CIDER and would like to pursue it as a side project.	7/27/2016 7:59 PM
2	Yes, some other CIDER participants suggested a new computational way to look at my data.	7/22/2016 10:43 AM
3	I will continue to work on the research project we started at CIDER which is different from the work I have been currently doing. I also have some ideas for other collaborative projects that might be possible as a result of the connections and discussions at CIDER.	7/22/2016 10:13 AM
4	Maybe, it is too early to know.	7/22/2016 9:54 AM
5	Not right now, but maybe in the future.	7/22/2016 9:50 AM
6	I plan to work with some people on different projects in the future.	7/22/2016 9:34 AM
7	Hard to say. The program was certainly not a waste of time, and helpful in broadening my understanding of deep Earth research. But there was only little applicability to my own specific field.	7/22/2016 9:33 AM
8	Potentially, yes	7/22/2016 9:32 AM
9	I am reconsidering my stand on coding and programming within my own area of interest.	7/22/2016 9:30 AM
10	I want to collaborate more with mineral physicists and geodynamicists.	7/22/2016 9:28 AM
11	I'm still interested in the same general topic, so my research interests are generally the same.	7/22/2016 9:26 AM
12	Maybe for the future	7/22/2016 9:26 AM

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13	The biggest thing I got out of CIDER was probably opening my eyes to the wide range of deep earth research, and developing an understanding of how it all fits together. I believe this will definitely open up additional research themes, and improve the degree of inter-disciplinarity of such research	7/22/2016 9:24 AM
14	Of course. This program helps me go into other areas of study by talking with people who focus on those fields. It can be difficult to cross that barrier on your own.	7/22/2016 9:18 AM

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Q23 Please share your impressions regarding the logistics of the CIDER II Summer Program, including (a) location, (b) venue, (c) housing and food, and (d) the schedule.

Answered: 34 Skipped: 7

#	Responses	Date
1	The location is fantastic and the housing is very nice. I was impressed with the food. The schedule worked well, I think, and a lot was accomplished over the 4 weeks.	7/27/2016 7:59 PM
2	Everything was well organized. I have no comments.	7/24/2016 10:34 AM
3	a) location was ideal/wonderful b) KITP was also wonderful c) housing and food was satisfactory d) schedule worked quite well.	7/23/2016 8:30 AM
4	Location: Perfect Venue: Kind of too crowded. Housing and food: Perfect Schedule: Perfect but still feel too long for the research group activities.	7/22/2016 9:28 PM
5	Santa Barbara provides an excellent location for CIDER. KITP is an almost ideal facility for this kind of program. In terms of scheduling I think that 1 week of lectures and 2 weeks of projects would be better. 4 weeks in the middle of summer is a lot of productive time to give up.	7/22/2016 10:46 AM
6	UCSB is a great campus. KITP was a great place to work. It was quiet and convenient with lots of space and good coffee sources (key for science). The venue was great for talks and discussions. It was a bit awkward when we broke up into research groups as we all shared the same communal space for a while but I think it worked well when we ended up with rooms and still had community time together at coffee and dinners. The housing was convenient and food quite good. The schedule was intense but manageable. There were a lot of social interactions, but I think that helps make CIDER a great place to make connections and network with old and new colleagues.	7/22/2016 10:40 AM
7	The location, housing, venue and schedule were very adequate. The food... well, this problem is not due to CIDER organization!	7/22/2016 9:59 AM
8	The location and venue are fine. I would have preferred opportunity to not eat in the dining hall, and rarely ate dinner there (too early, and food quality no different from lunch).	7/22/2016 9:55 AM
9	It's good to have everything in one place.	7/22/2016 9:54 AM
10	The location in Santa Barbara is scenic. The venue at KITP had excellent facilities. The accommodations in the UCSB residences were more than adequate and I appreciated the proximity to the beach. I think the schedule was adequately paced.	7/22/2016 9:51 AM
11	I was highly impressed with the whole program. It was properly managed with comfortable lodging both in the apartment as well as with the offices. There was also great communication between participant, great food, and a lot of opportunity for formal and informal interaction.	7/22/2016 9:43 AM
12	The location is very nice, distances to walk from dining hall to KITP are a large. Housing is ok, and also the food. The dining hall for lunch was very often very crowded, with lines of children waiting. Loved the BBQs and catered dinners.	7/22/2016 9:42 AM
13	All excellent. The location and venue are spectacular. The cafeteria food for the students was actually surprisingly decent. The housing was acceptable. The dorms were not exceptionally comfortable though. The schedule was good, the only complaints are that the dining hall opened for breakfast most days at 8 and we had to be in by 9 (including a ~20 minute walk); I wished the dining hall opened earlier or lectures started later. Additionally, we would generally go to dinner soon after the end of the afternoon session, which could be as early as 5:30 or 6, which was a little early for many people	7/22/2016 9:42 AM
14	appropriate.	7/22/2016 9:41 AM
15	All things are well organised.	7/22/2016 9:39 AM

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16	The location was great - I really enjoy Santa Barbara. KITP was a great place to spend four weeks. Our main lecture room was very nice (projector was not the best though), and my research group and I enjoyed our two weeks working in the courtyard of KITP. The dorms we stayed in were very nice - well-maintained and surprisingly large. Dining hall food was also good. I found the schedule fine, although I would have preferred Saturdays off (which could be made up by either an extra few days or staying an extra hour or so each day).	7/22/2016 9:36 AM
17	The locations of main hall, dorm, dinning hall were good. Housing (particularly single room) and food were great too. The schedule was a bit too tight for me.	7/22/2016 9:35 AM
18	All excellent. UCSB and KITP have been idillic places to spend a summer workshop! The schedule in general was great, giving participants plenty of things of to think about, but yet enough free time to keep us from becoming overworked.	7/22/2016 9:35 AM
19	everything is excellent	7/22/2016 9:35 AM
20	I think it was well planned and the location is definitely a plus. Housing and food were greatly appreciated.	7/22/2016 9:33 AM
21	Everything is well organized. I really appreciate the efforts the CIDER committee put into it.	7/22/2016 9:32 AM
22	The location is fantastic such that staying for four weeks is very enjoyable. The accommodation at Santa Barbara are not ideal: the rooms are uncomfortable and each day the dining halls may be quiet or so busy that you cannot sit. Mealtimes are so inflexible as to make activities outside of the program difficult: it is not possible to leave the program at 5:30 pm, go to the gym for an hour, and make it to dinner before the hall closes. Similarly, inflexible weekend hours meant that I barely ate in the dining hall.	7/22/2016 9:32 AM
23	The location and venue were awesome. The surroundings are beautiful and we had everything we needed to be productive. The only thing that would have improved my experience was if the junior and senior housing wasn't so far apart. As someone inbetween the two groups I felt like the two groups were too separated because of this reason, and therefore there was less time to interact on an informal level with the senior participants.	7/22/2016 9:32 AM
24	The location is wonderful, KITP is pretty good (minus the lack of many large rooms for groups to work), the dorms are good (the beds are only passable, but all other amenities are great), and the food is good, but repetitive. The schedule is a bit tiring during the two lecture weeks, but it was survivable. Having CIDER at KITP in UCSB is a wonderful incentive to attend and made my four-week experience quite enjoyable.	7/22/2016 9:29 AM
25	Location was PERFECT. Venue, housing, and food were fantastic. The schedule was decent, but could do without the Saturday morning lectures.	7/22/2016 9:28 AM
26	Everything is great!	7/22/2016 9:26 AM
27	Location, housing and food were all very good. The schedule was a bit heavy to perform any other personal research/work	7/22/2016 9:26 AM
28	a) Location absolutely brilliant. b) KITP was fine. For groups being located outside in courtyard, we got a little sunburnt c) Housing fantastic, food fine. d) Schedule was the correct amount of work / play	7/22/2016 9:26 AM
29	(a-d) were all very nice.	7/22/2016 9:25 AM
30	a. location is pretty great. b. Venue is great. I just wish there was a water cooler or something. The tap water is pretty bad. c. Housing was nice. If possible, it would be nice to be in a different dorm because there were really loud parties every night from the other summer camps. It was really hard to go to bed before 11pm. Food is fine. d. Schedule is good.	7/22/2016 9:20 AM
31	Location venue and schedule is perfect Food is good, housing may need to be improved, My dormitory has a lot of ants	7/22/2016 9:17 AM
32	All of the above were very good.	7/22/2016 9:17 AM
33	Excellent experience!	7/22/2016 9:09 AM
34	in one word. 10 on 10.	7/21/2016 10:00 PM

CIDER II 2016 Summer Program Feedback Survey

Q24 Please share any comments/feedback you have regarding the overall quality of the CIDER II Summer Program.

Answered: 27 Skipped: 14

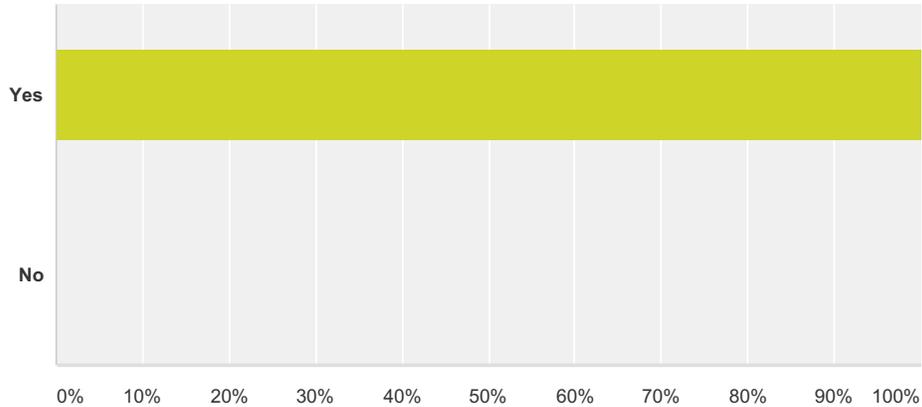
#	Responses	Date
1	Everything was great	7/28/2016 9:06 PM
2	Excellent program that I would recommend to other graduate students and would love to participate in again (hopefully as a post-doc by then!)	7/27/2016 7:59 PM
3	This CIDER could possibly be the best conference experience I have ever had. It is helpful to me in many ways. I learned a lot of basics and have a generally better idea of the big picture in other field. I had very informative conversation with many professors. I made close connection with many graduate student and I will work with some of them in the future. I also made many friends here at CIDER and some of them will end up being very good friend for the rest of my life. I love CIDER. :D and hopefully I could come again next year.	7/22/2016 9:28 PM
4	Excellent	7/22/2016 10:46 AM
5	It was my first CIDER program and really liked the high quality of the talks and discussions. I thought the final research presentations were all impressive given the short amount of time we all had to work on the questions. It was fun to be in such a stimulating and engaging environment for such a long time. Wonderful experience.	7/22/2016 10:40 AM
6	Thank to CIDER I have meet people from Deep Earth community and I think it is the most important point. It is a great opportunity to participate in CIDER.	7/22/2016 9:59 AM
7	It was a really good experience to know more about the different fields of Earth sciences.	7/22/2016 9:54 AM
8	I would like to thank the organizers for a successful CIDER II Summer Program. I think it is very valuable to junior participants like myself.	7/22/2016 9:51 AM
9	This was my first time attending CIDER, but it was definitely the most rewarding continuing education experience that I have participated in for at least 3 years prior. I also improved my visibility in the community and was introduced on a personal level to leaders in the field.	7/22/2016 9:43 AM
10	I also attended CIDER in 2012, and perhaps I was young and naive and am more cynical now, but I enjoyed that program a little more.	7/22/2016 9:42 AM
11	Great program that could be improved slightly by making sure all speakers are clear and organised.	7/22/2016 9:41 AM
12	I like CIDER, if possible, I definitely want to take part in again.	7/22/2016 9:39 AM
13	The overall quality of CIDER was excellant	7/22/2016 9:36 AM
14	Thank you for everything!	7/22/2016 9:35 AM
15	Excellent program! I feel like this was well worth my time attending, and I have learnt a great deal.	7/22/2016 9:35 AM
16	The overall quality is very good.	7/22/2016 9:35 AM
17	Cider was an amazing opportunity and would be happy recommend it in the future, as well as, participating again myself.	7/22/2016 9:33 AM
18	It is the best summer program I've ever been to.	7/22/2016 9:32 AM
19	The level or participants and faculty was very high, and I learnt a lot in the four weeks.	7/22/2016 9:32 AM
20	Fantastic! I hope I can come back again!	7/22/2016 9:32 AM
21	CIDER II is wonderful. My first time attending two years ago was one of the best four weeks of my life, and this CIDER has also been both productive and enjoyable. I look forward to attending in future years if able to.	7/22/2016 9:29 AM
22	Truly terrific.	7/22/2016 9:28 AM
23	Thank you so much! I had a fantastic time, and really got so much out of the program!	7/22/2016 9:26 AM
24	I think CIDER is very unique. I have never made such good connections before. It really is much more effective at networking and sharing research ideas than AGU or any other conference.	7/22/2016 9:20 AM

CIDER II 2016 Summer Program Feedback Survey

25	Overall it's high quality program for graduate student to work with more people	7/22/2016 9:17 AM
26	Great	7/22/2016 9:17 AM
27	10 on 10	7/21/2016 10:00 PM

Q25 Would you recommend CIDER II to other graduate students and post-doctorates?

Answered: 39 Skipped: 2



Answer Choices	Responses	
Yes	100.00%	39
No	0.00%	0
Total		39

#	Please explain.	Date
1	It was very useful professionally. I now have a much broader view of the discipline. I created lots of new connections (some of them multidisciplinary) and strengthened old ones. I had a lot of fun both scientifically and personally	7/28/2016 9:13 PM
2	CIDER provided excellent educational and networking opportunities. I was able to learn a lot about fields that are directly relevant to my research, but are not well-represented by faculty at my home institution. In my own field, I was able to learn about new applications and meet fellow graduate students and faculty members.	7/27/2016 8:09 PM
3	Its a great chance to interact and learn from people from different research areas. Get to know about the latest advances and carry out fruitful discussions on Earth science topics.	7/24/2016 10:36 AM
4	Yes, with the caveat that it is clear that your own research will essentially be on hold for 4 weeks.	7/22/2016 10:50 AM
5	It's a great opportunity to learn about related fields to your own. It's easy as a student to get very focused on your one question you're working on during the PhD. I think CIDER allows you to see the bigger picture for a change. It's also a great way to see how senior members interact and engage with others from different communities and learn from that experience. CIDER is also a great place to network with new colleagues and make connections for future jobs or projects.	7/22/2016 10:45 AM
6	I would definitely recommend it to graduate students and post-docs I know who are working in solid earth geophysics whom I think would benefit from gaining a wider interdisciplinary perspective.	7/22/2016 10:03 AM
7	Networking and new ideas.	7/22/2016 10:00 AM
8	It depends on their research area. As someone who studies the scummy crust of the Earth, I would not necessarily encourage others in my field to come a deep Earth CIDER, but perhaps the shallower one at UCB.	7/22/2016 9:51 AM
9	I think everyone can get something out of it.	7/22/2016 9:46 AM
10	Great opportunity to active your interest and learn from different areas. Help to build a big picture are the early research stage.	7/22/2016 9:41 AM
11	I learned an incredible amount this summer. This experience also sparked a lot of new research ideas	7/22/2016 9:41 AM

CIDER II 2016 Summer Program Feedback Survey

12	Fantastic opportunity to learn about new tools in our research and multidisciplinary, and make connections for future research.	7/22/2016 9:38 AM
13	mainly because I find a lot collaborations here.	7/22/2016 9:36 AM
14	This is great. Anybody doing related research must come here.	7/22/2016 9:35 AM
15	It's a great place to get a wider view on the field of earth science and to really see where the disagreements and places were opportunities for work still are.	7/22/2016 9:31 AM
16	CIDER is awesome in so many ways. It fosters creativity, inter-disciplinary collaborations, and community. I think the long-term results of this have already shown up in the fact that a handful of the senior participants were once students at CIDER.	7/22/2016 9:31 AM
17	CIDER was an amazing experience to get new ideas and motivation as well as meeting people for further research. This kind of experience is very rare. Furthermore the group project get a chance to learn to work in a very multidisciplinary group and learn new skills. It is a very valuable experience that we can only recommend.	7/22/2016 9:30 AM
18	It is a great chance to broaden a graduate student's knowledge regarding different scientific questions. It also allows graduate students to participate and develop new research projects.	7/22/2016 9:29 AM
19	100%	7/22/2016 9:28 AM
20	It's a good experience to have during graduate school	7/22/2016 9:21 AM
21	It was a great experience to learn about new geoscience sub-disciplines and interact with multiple people.	7/22/2016 9:18 AM

Q26 Senior Participants ONLY: Would you recommend the CIDER II program to other colleagues?

Answered: 0 Skipped: 41

! No matching responses.

Answer Choices	Responses
Yes	0.00% 0
No	0.00% 0
Total	0

#	Please explain.	Date
	There are no responses.	

CIDER II 2016 Summer Program Feedback Survey

Q27 Please share your final thoughts about how you view the benefits and/or drawbacks of participating in the CIDER II 2016 Summer Program.

Answered: 27 Skipped: 14

#	Responses	Date
1	Taking a month off my everyday duties (professional and personal) is a big commitment, but it was worth it.	7/28/2016 9:13 PM
2	The benefits greatly outweigh the drawbacks. The benefits were meeting students and faculty, pushing the boundaries of my knowledge in my own field, and learning about related fields. The only drawback was that I lost a month to prepare my main research project and the AGU abstract deadline fast approaches. However, I think it was worth it for the educational experience alone, and certainly for the networking opportunities.	7/27/2016 8:09 PM
3	It is helpful to a graduate student like me in many ways.	7/22/2016 9:30 PM
4	The largest benefit is definitely the networking and time spent working on things outside of what you're normally thinking about. The largest drawback is that there is a good chance at the end of things there will be nothing tangible to show for the time spent.	7/22/2016 10:50 AM
5	It was a great program and I feel I only benefitted from it. It seemed like a long time before arriving but now seems like time flew by. It was great to have some much time together to really discuss science long term without other distractions. It would be great to have some of the senior faculty here longer but nice to see so many different people from different fields.	7/22/2016 10:45 AM
6	I think the main benefits for a junior participant like me are many. The tutorials and lectures serve to provide more background, while working on the research projects allows us to drawn on our prior experience and extend that to areas in which the senior participants have experience. What was most striking to me is how much I learned from making the personal connections in addition to these structured aspects of the program.	7/22/2016 10:03 AM
7	I really enjoy the collaborative opportunity, however, require a whole month in the summer in which I cannot do any research, which requires my physical presence in the lab.	7/22/2016 9:59 AM
8	I spent a really good time at CIDER, learned a lot of things and it makes me more curious about the Earth. I am willing to know more on works made in the different fields and part of the Earth.	7/22/2016 9:56 AM
9	benefits : a very unique, great opportunities for meeting the earth science community, for exploring other fields and learning a lot of them. drawbacks : maybe, that its a huge time investing, but its worth it.	7/22/2016 9:50 AM
10	CIDER is a great opportunity to network, get alternative mentoring, upgrade ones understanding on the field and get inspiration for future research projects including collaborations.	7/22/2016 9:49 AM
11	Overlapped with Goldschmidt conference, so I could only choose one or the other.	7/22/2016 9:48 AM
12	Benefits are learning background and cutting-edge research from a range of fields. Cons are this takes 4 weeks and can be during an inconvenient time for research.	7/22/2016 9:46 AM
13	I learned a lot during the whole program. I like it with my deep heart.	7/22/2016 9:41 AM
14	The benefits of CIDER are huge - I think they far outweigh any drawbacks (of not getting much of your own research done for a few weeks). I learned a lot about my own field and gained an appreciation for other related fields	7/22/2016 9:41 AM
15	Very satisfied with the CIDER. It will be really helpful for my future works.	7/22/2016 9:39 AM
16	I'm looking forward to develop further the research project started here, as well as the new ideas motivated by the lectures and tutorials. And I enjoyed all that extra interaction time with the faculty and senior participants during the coffee breaks and dinner activities.	7/22/2016 9:38 AM
17	Overall, this is beneficial to everyone, or at least graduate students. I can't think of any drawbacks.	7/22/2016 9:35 AM
18	While it is a long time to be away from home and one's home institution, the program is worth the time. However, logistically it is difficult to attend both CIDER and SEDI.	7/22/2016 9:33 AM
19	CIDER is great for networking, expanding your knowledge base, and is a great quasi-vacation in the middle of the summer. However, it takes a large chunk out of your working time in the middle of the summer, which is a prime time to complete research while not teaching classes.	7/22/2016 9:31 AM

CIDER II 2016 Summer Program Feedback Survey

20	The only drawback is missing a month of work, but it's truly worth it. CIDER participants benefit by making lasting connections and working to come up with creative research topics.	7/22/2016 9:31 AM
21	Though it has been difficult to combine my work and the CIDER program it has been a great experience that help me to shape a new view on my own research and on research science in general. It also help me to get an idea of all the advantages of a multidisciplinary approach	7/22/2016 9:30 AM
22	Pros: You learn a lot about other fields, and up-to-date information about what is going on in the field. You meet people. Cons: You need 4 week commitment.	7/22/2016 9:28 AM
23	Main benefits: Networking with fellow junior people for future collaborations, and enhance inter-disciplinary knowledge of solid earth science. Main drawback: Long time of absence from "regular" research.	7/22/2016 9:28 AM
24	There are many benefits that I have already explained in previous questions. Drawbacks: the length is long but probably necessary.	7/22/2016 9:22 AM
25	Summer program is good in many ways, give me a deep understanding about a topic and meeting a lot of new friends. Some tutorial is not good, dormitory is not good enough	7/22/2016 9:21 AM
26	None	7/22/2016 9:18 AM
27	It was my first and very wonderful experience.	7/21/2016 10:01 PM

CIDER II 2016 Summer Program Feedback Survey

Q28 Please share any final comments and suggestions you have to help improve the CIDER II program.

Answered: 13 Skipped: 28

#	Responses	Date
1	Having some time during the first two weeks to work on reviewing literature (maybe small journal clubs for each group) would be useful. It would be great to figure ways to increase the interaction between students and faculty. The distribution and degree of commitment of faculty members across groups was uneven	7/28/2016 9:13 PM
2	I think that it would be possible to start the initial research project meetings even earlier. Another scheduling improvement would be to make sure that each region of the deep Earth is well represented throughout the first week, so that research topics can be formulated early.	7/27/2016 8:09 PM
3	I think CIDER is good enough.	7/22/2016 9:30 PM
4	More time to choose the projects, or at least more question sessions.	7/22/2016 10:00 AM
5	Choosing and participating in a research group that is engaging and that I could contribute to was a little difficult at first. It would be useful to give future participants some preparation on what is expected of them.	7/22/2016 9:49 AM
6	Some participants tended to make fun of other fields, e.g. seismologists vs geochemists. Only small comments but I would have found this offensive if it were my own field. This should not occur in an environment trying to bring people together.	7/22/2016 9:46 AM
7	CIDER was a wonderful experience, I would highly recommend it	7/22/2016 9:41 AM
8	4 weeks may be too long for some people. Please consider to reduce it to make the CIDER program denser.	7/22/2016 9:39 AM
9	smaller group would work better	7/22/2016 9:36 AM
10	Keep up the great work!	7/22/2016 9:31 AM
11	I think the dorms is my biggest complaint. The parties every night outside our dorms from the summer camps were really bad. It was just very difficult to find any quiet time. I understand it's difficult to move dorms, but if there is any possible way, I think that would make a lot of students happy.	7/22/2016 9:22 AM
12	Better dormitory and make some tutorial lessons more interactive	7/22/2016 9:21 AM
13	None	7/22/2016 9:18 AM