

***Evaluation by participants of the 1st LACA School – Small Molecule Crystallography
Facultad de Química, Universidad de la República
Montevideo, Uruguay, February 19th – 25th, 2018***

<http://lacassmc.fq.edu.uy/>

During the two following weeks after the end of the 1st LACA School – Small Molecule Crystallography, the participants were invited to reply to a series of questions related to many relevant aspects of the event, including organization, lodging services and academic evaluation. The following graphs and tables show a summary of the 36 responses collected from participants that completed the evaluation form.

The evaluation form can be accessed through this link:

<https://docs.google.com/forms/d/19mlm1YCKOqCGi3097zblfkERIPAjITS-siSCfVII5-0/edit>

A copy of this report is also available at the web page of the event under the menu Evaluation of the school.

The tables and graphs are self-explanatory and transcripts in English of the open questions are also included. Globally, the impression of the participants is very positive in all aspects of the event. This is consistent with the personal impression that the organizers received during the last two days of the event.

The organizers are open to questions and comments on this report and the School through the e-mail lacassmc@fq.edu.uy.

Leopoldo Suescun

Natalia Alvarez

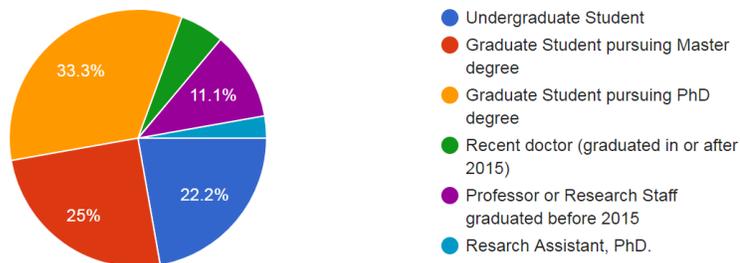
Guzman Peinado

May 15th, 2018

Self-identification and previous background questions:

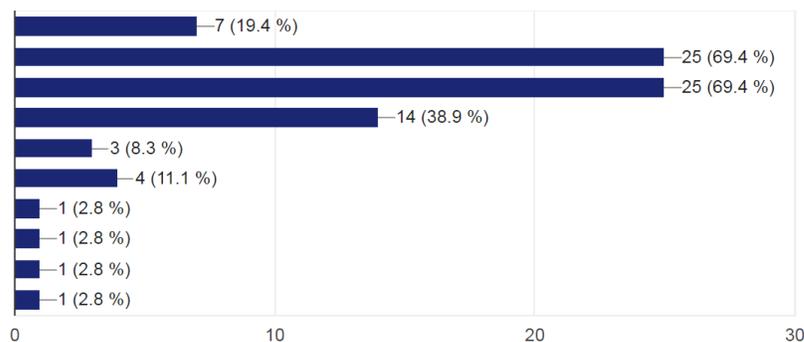
1- Please select your education level.

36 respuestas



2- What are your research interests?

36 respuestas

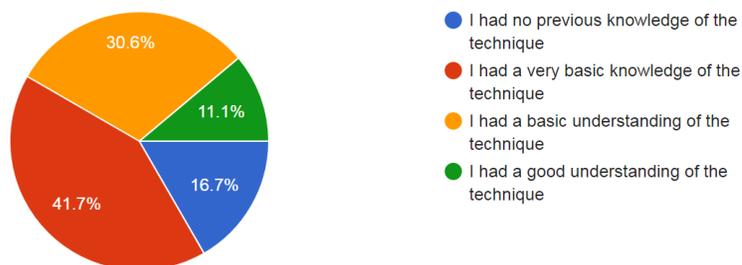


In these questions, participants could select from the following items:

- a- Mathematical/Theoretical Crystallography
- b- Chemical Crystallography
- c- Structure determination by diffraction methods
- d- Materials Science
- e- Diffraction Physics
- f- Structural Biology
- g- Geology/Mineralogy
- h- Other (3 people selected other interest)

3- How would you estimate your level of knowledge regarding Single Crystal X-ray Diffraction BEFORE the School?

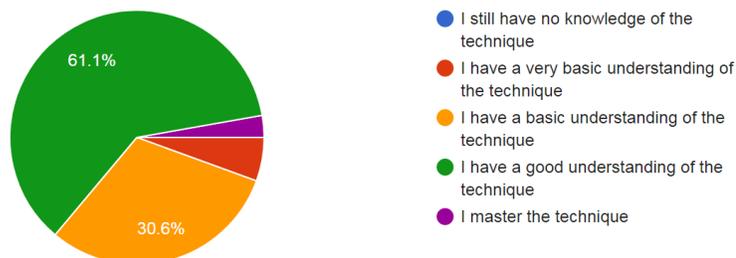
36 respuestas



Questions about the outcome of the School:

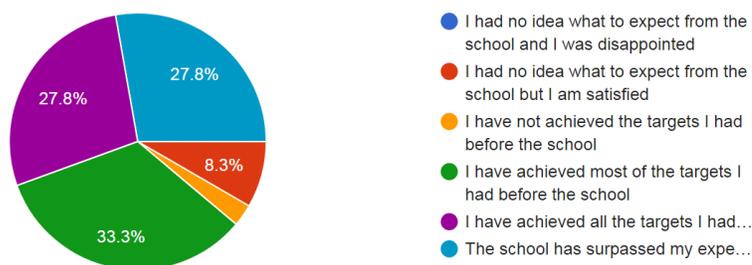
4- How would you estimate your level of knowledge regarding Single Crystal X-ray Diffraction AFTER the School?

36 respuestas



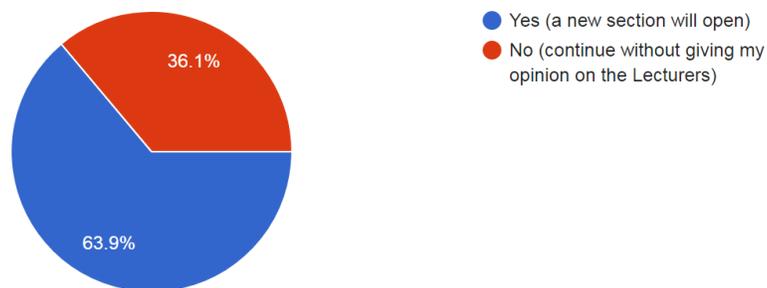
5- Have you reached the goals you expected to reach when you decided to participate in the School?

36 respuestas



6- Would you like to give your opinion on the Lecturer's work at the school?

36 respuestas



Results of this aspect of the evaluation were sent to each of the lecturers. The average of the answers follow in the next item.

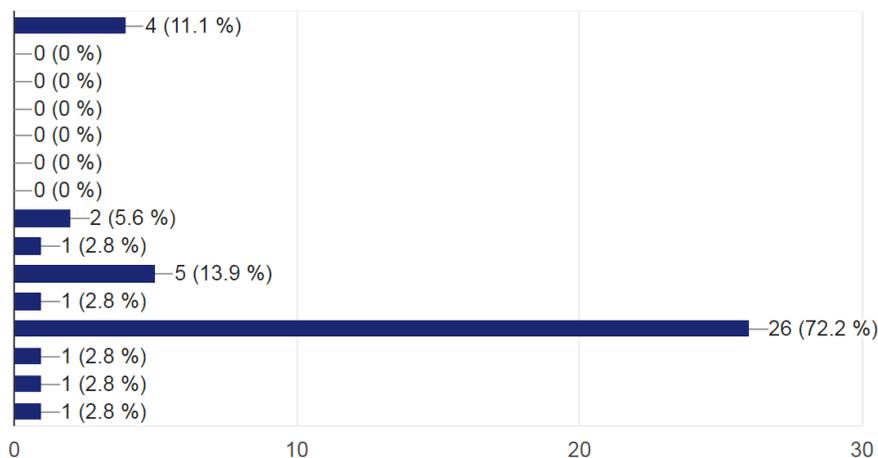
Questions regarding Lecturers and Topic selection:

Participants were asked to grade the Lecturers' work during the School in a scale from 1 (very bad) to 5 (excellent) regarding five aspects that are listed below. The total number of replies for each aspect and grade 1 to 5 are included and the weighted average of qualification shown in the last column:

Qualification:	1	2	3	4	5	Ave
Clarity in developing the class topics	0	4	23	52	124	4.5
Adequacy to the level of your previous knowledge	1	3	22	53	105	4.4
Usefulness of the class for the rest of the course	1	6	20	56	100	4.4
Clarity in replying to your questions or helping with your problems	0	3	16	44	106	4.5
Usefulness of lecture notes/slides/additional material	0	2	17	37	121	4.6

8- What topics (if any) do you think should NOT have been included in the program?

36 respuestas

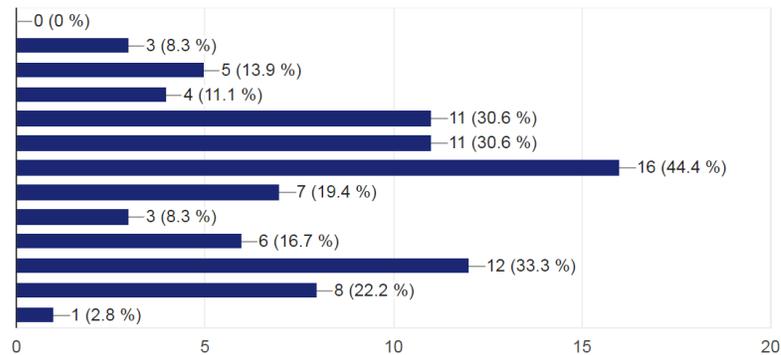


The large majority (26) considered the selection of topics was adequate and none should have been removed. The topics that received more than one answer were: Bruker APEX3 Software Use (5), Introduction to crystals and history of crystallography (4) and Structure determination with powder diffraction data (2).

9- What topics (if any) do you think should have been treated extensively?



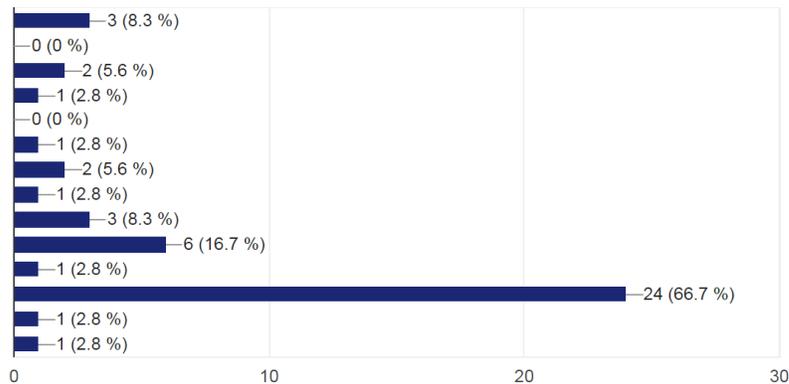
36 respuestas



10- What topics (if any) do you think were treated too extensively?



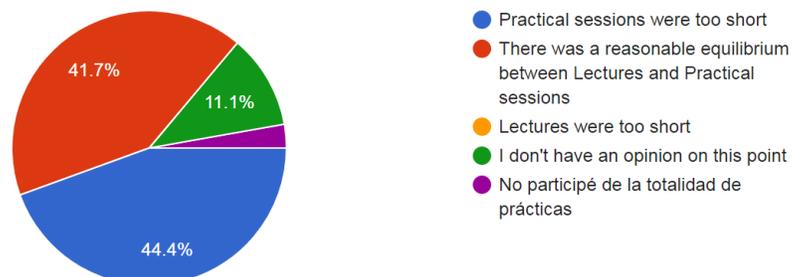
36 respuestas



The majority of participants considered that the topics Structural refinements (16), Practice with own data (12), Structure determination methods (11) and Structure Factors and systematic absences (11) should have been treated extensively, but none of the topics were treated too extensively except for Bruker APEX3 software use (6). Maybe the theoretical part should have been shrunk to leave more room to practical sessions.

11- What is your opinion about the proportion of Lectures and Practice sessions?

36 respuestas



12- What topics (if any) would you have added to the program? (text in parenthesis is the original answer if it was not in english)

I believe a lecture on instrumentation (how a diffractometer works, what are its parts, basic and state-of-the-art instruments, etc) should be added to the program

Structure refinement from powder diffraction data or at least unit cell determination from powder data. These were not covered and just overviewed even though it was in the program. (El refinamiento de estructuras a partir de datos de polvos, o al menos la obtención de datos sobre la celda unidad no fueron cubiertos, fueron "pasados por arriba". Eso habría que tratarlo, dado que estaba en el programa.)

Refinement with OLEX2 (refinamiento con el uso de OLEX2)

Would add some topic (review) on complementary techniques of characterization of solid forms (DSC, TGA, IR, Raman, among others)

Resolving the structure by powder diffraction

Current challenges of crystallography as a scientific discipline (retos vigentes de la cristalografía como ciencia)

Other perspectives and techniques used in crystallography.

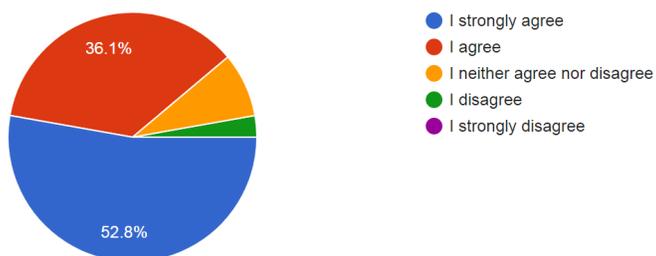
Interaction analysis through software such as Mercury

Rietveld refinement

Questions about organizational aspects:

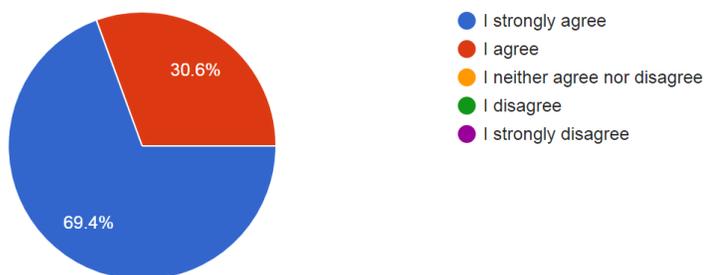
13- The free afternoon was worthwhile to allow for some rest from the intensity of the school and to catch up on the material already presented.

36 respuestas



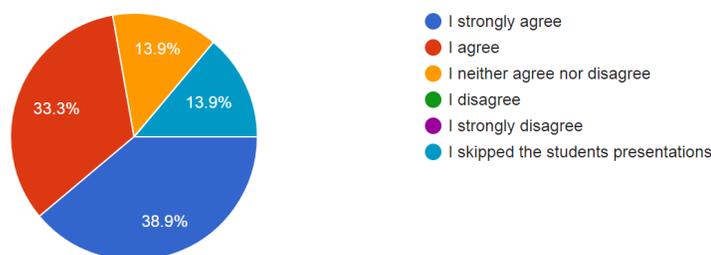
14- The Social Dinner collaborated with the objectives of the school.

36 respuestas



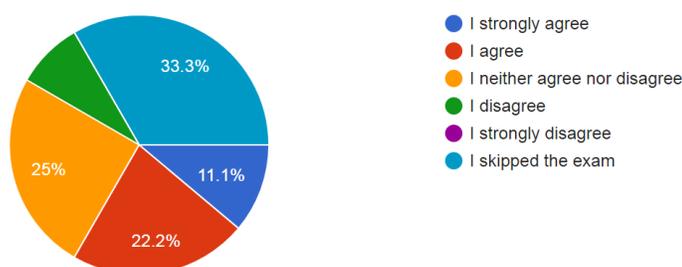
15- The Student's Presentations also contributed to my learning during the School.

36 respuestas



16- The difficulty of the written evaluation (exam) was adequate for the level of the School.

36 respuestas



17- Would you suggest any other form of evaluation or activity for participants measure their achievements? Please, use this space to comment on questions 15 and 16 if needed.

(text in parenthesis is the original answer if it was not in english)

I think students could be given their own example dataset to work from the very first day of the School. This should include the beginning of the data processing all the way to the preparation of the CIF and writing of a small text file including crystal description, database comparison and intermolecular interactions analysis, i.e. a file in the Acta E standards, which would be evaluated by the lecturers (that is, could the file be accepted in Acta E standards?). This would give the participants a very nice measure of achievements.

I would suggest the exam was written in Spanish or Portuguese. (Recomendaría que el examen fuera en español y portugués.)

The exam was adequate.

Resolving the structure of our crystals

If possible, the participants should write a report on the topics of the Lectures and general concepts. (Si fuera posible, la elaboración escrita de informe basado en las conferencias y los aportes generales)

At the end of the day, there should be a short exam rather than one general at the end of the course.

Given the heterogeneity of the audience, maybe a written test is not the best way to evaluate knowledge. In my opinion, the oral presentations should be enough. Because of personal

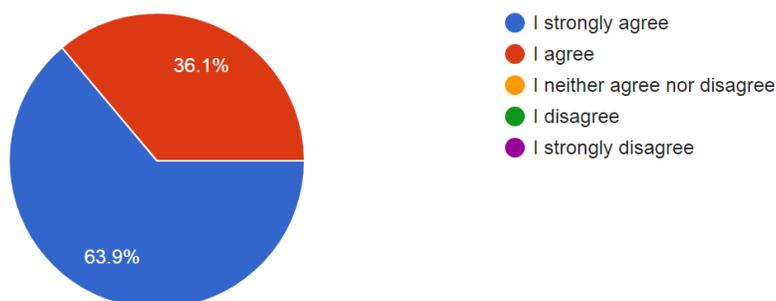
issues, I was unable to attend to neither the presentations and the exam but this is my opinion on the many courses I took.

grupal evaluation or something like that

A lot of practice and explain in situ the process and the theory, that is, the interpretation of the parameters obtained and thus fix better. Always a lot of practice helps to understand more the theory

18- My attendance at the "1st LACA School: Small Molecule Crystallography" will improve my research activities.

36 respuestas



19- Please, describe how your participation in the School may improve your research activities.

(text in parenthesis is the original answer if it was not in english)

The School gave me enough information to solve many of my questions and doubts about the theory of how a X-ray diffraction experiment is performed. The nature of many parameters that appear during the evaluation of a crystal structure became clearer to me and may guide me to work better with my own data. Additionally, the lectures on intermolecular interactions and data validation were very useful for understanding how to extract information from the crystal structure and what should I do before submitting a CIF.

The School inspired me to consider this technique for research purposes I had not thought of before

I am already applying what I learned on crystallization methods, crystal mounting and also structure refinement from single crystal data. (Ya estoy aplicando lo que aprendí en métodos de cristalización y montaje de cristales y también en el refinamiento de estructuras a partir de datos de monocristal.)

I hope I can use the local diffractometer by myself, indeed I'm doing it already with the help of Natalia. Being able to solve structures adds extra value to the work we do. (Espero poder utilizar el difractometro local, y de hecho, ya lo estoy haciendo con Nati. Poder resolver estructuras le agrega un valor extra a los trabajos que realizamos.)

For starters, this brought back my motivation which I felt I had lost last semester, because I am sure I want to be a crystallographer but I felt lost due to the fact that in my university there is no one else working on crystallography. Meeting so many students and professors, with so much passion, restored my motivation and enthusiasm. Additionally, I had only a very basic knowledge on many of the topics of the school but the course helped me learn more about them and recognize I had made some mistakes in my work and now I know many other new things I can do. In summary, I feel my research will improve thanks to this school. (Para empezar, me

regresó la motivación que siento que había perdido el semestre anterior, ya que tengo clase que quiero ser un cristalógrafo pero me sentía perdido, ya que en mi universidad, no hay otro cristalógrafo. El ver tantos, alumnos y profesores, y con tanta pasión, hizo que volviera a mí ese sentimiento de motivación, entusiasmo. Además, muchos temas antes nada más los conocía de manera ligera, pero el curso ayudó a que aprendiera más y me diera cuenta de muchos errores que cometía y de muchas otras cosas nuevas que puedo hacer. En definitiva, siento que mi investigación mejorará gracias a este curso.)

This school allowed me to acquire and confirm my knowledge both in single crystal and powder diffraction. Particularly, concepts included in the single crystal practical activities will allow me to work with this technique from higher grounds. (Esta Escuela me permitió adquirir y arraigar conocimientos tanto de DRX de monocristal como de polvo. En particular, los conceptos trabajados en las clases prácticas de DRX de monocristal, me permitirán empezar a trabajar con la técnica sin tener que empezar de cero.)

My research will be much better since I will be able to evaluate the crystallographic information by myself (mis investigaciones serán mucho mejor, ya que puedo evaluar la información cristalográfica.)

I had little knowledge of the technique. Now I know which problems I can solve with single crystal diffraction and how to approach them. I also feel confident on the interpretation of data and on the preparation of CIF files.

My participation in the school will be very helpful in my research since it helped me learn about a new technique and methods to find the structure from powder and single crystal diffraction data. (Mi participación en esta escuela me va a servir muchísimo en mi actividad investigativa, porque me dio a conocer una nueva técnica y métodos para encontrar las estructuras mediante de difracción de Polvo y Monocristal.)

The participation in the school was fundamental for learning and establishing knowledge about crystallography, which is the basis of my master's project.

I solved the structure of my crystal and I will start the crystallography in my department.

My participation in the 1st LACA School gave me knowledge and a lot of information that will help me along the development of my master thesis and that I will use all along my career. I had the chance to see the theory and practice on how several concepts that seem unrelated get together to contribute to crystallography and solve diversity of problems. (Minha participação na 1st LACA School proporcionou um aprendizado maior com muitas informações que me ajudarão no decorrer do meu mestrado e que levarei para sempre em minha profissão. Tive a oportunidade de ver a teoria e a prática de como tanta informação de áreas, que parecem estarem distantes inicialmente, mas que se juntam para contribuir com a cristalografia e resolver diversos problemas.)

I have more contacts with crystallographers from Latinoamerica

The knowledge in crystallography obtained in the school is helping me a lot in the resolution of some structures that I am collecting. Mainly in the refinement of disorder taught by Professor Alberto. In addition to the contacts that I hope will result in future scientific partnerships.

I've learned a lot of concepts that will help me to understand my data and the workflow to get my CIF file.

The understanding of the crystallographic fundamentals together with the manipulation of the software allows a better development for my research. the part of the data collection in the diffractometer and the learning about APEX software, will contribute a lot in my research, being one more important points.

I worked on powder diffraction for many years but never with single crystals. Now, I started a new postdoc exclusively on small molecules and single crystals so the LACA school was the best way to begin my new research. I can say that I faced many situations mentioned on the course.

with my participation in the school I enhanced all my knowledge about crystallography in general, I had many gaps of knowledge before the school, but now I feel that I can resolve the majority of the typical crystallographer's problems

I will establish collaborations to elucidate organic structures in my institution. (Colaboración en elucidación de estructuras orgánicas en la institución donde trabajo.)

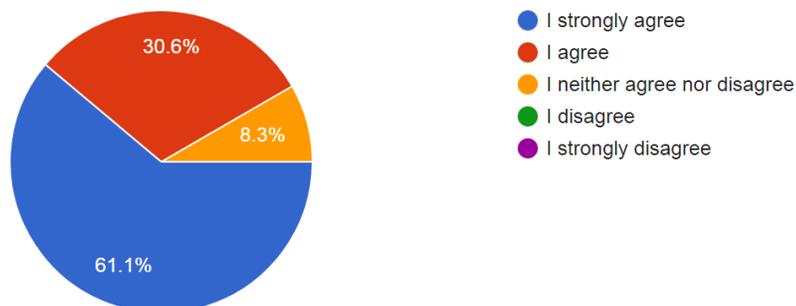
I had access to Bruker's program, which was very good. I also had contact with several researchers from Latin America and it was possible to improve my knowledge in crystallography.

The school helped a lot to re-focus my research thesis and use software that will help me understand more details of my structure from the electron density and better support the kind of search I do with my complexes, since I need to apply them to the area of materials and corrosion. (La escuela me ayudó mucho para retomar el enfoque que tengo en mi tesis de investigación, además con los programas que presentaron complementarios para poder saber u obtener mayor información de mi estructura a partir de la densidad electrónica, otorga mayor respaldo al tipo de búsqueda que hago con mis complejos, ya que necesito además determinar una aplicación en el área de los materiales y corrosión.)

When I started working on organometallic complexes I had no idea of many things, I was self-taught and when I first saw an X-ray diffractor I had no basic idea of its principles and the use of the technique. Today I have a lot of notion of complex and settled the basic fundamentals and the importance of the method as it helps to solve large problems in structural elucidation

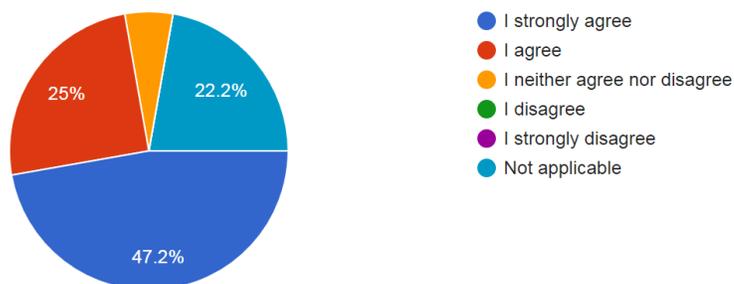
20- The information provided by the organization before the event was accurate and useful for preparing my attendance to the event.

36 respuestas



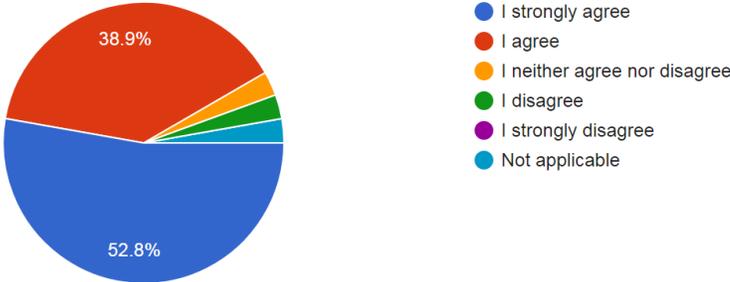
21- The lodging provided by the organization was within my expectations and needs.

36 respuestas



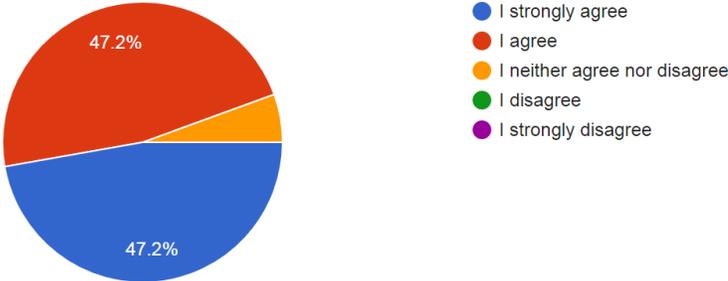
22- The Lunches provided by the organization were in general satisfactory.

36 respuestas



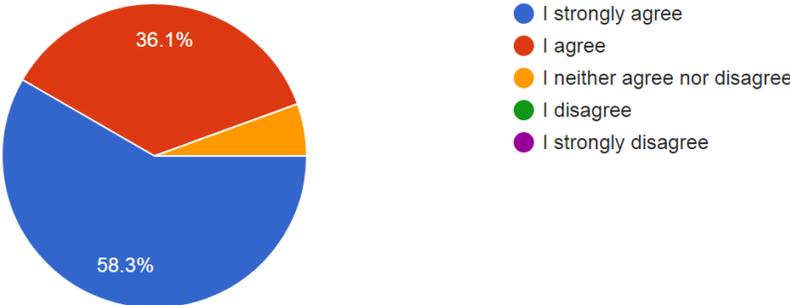
23- The coffee breaks provided by the organization were in general satisfactory.

36 respuestas



24- The lecture room and services were adequate for the event.

36 respuestas



25- Please, indicate what organizational aspects of a future event should be modified to improve the school.

(text in parenthesis is the original answer if it was not in english)

I think the lecture room should be bigger to accommodate all the students, or the number of students should be reduced. It should be recommended that the (basic) softwares should be installed before the beginning of the School, or during coffee-breaks. Their installation during the lectures was impractical and made the classes very chaotic.

I think that for the practical sessions there should have been large tables on which we could have placed our computers and work more comfortably. (Me parece que para las secciones practicas hace falta una sala con mesas (en el salon del claustro se pueden colocar), para poder apoyar computadoras y trabajar mejor.)

Maybe the number of lectures per day should have been reduced, even at the cost of a longer school. All the rest was perfect, thank you (Quizás las horas de clase por día podrían haber sido menos, aunque la escuela durara más). Todo lo demás estuvo perfecto. Felicitaciones!

Desks were small for the computer practices. A classroom with more comfortable tables would have been nice.

I believe that the event was very well organized and I have no suggestion of changes

More time in the refinement by ShellXle

I have no suggestion to change the event. From my point of view the activities and format of the school is correct.(Não tenho nada a sugerir para modificar o evento. Ao meu ver, o formato das atividades foram muito bem elaborados.)

As I said before, if the school were longer it could include social events such as excursions to museum, theatres or futbol games. There was no time available. (Como lo expresé anteriormente, si fuesen más días del desarrollo de la escuela, se pudiera incluir eventos como visita a algún museo, concierto o juego. Lo que faltó fue tiempo.)

There should be a guided workshop. Where students get classified by their level of knowledge. After that, they should solve a problem adequate to their level or topic of interest to master.

Perhaps have a greater time free to rest and work their own data.

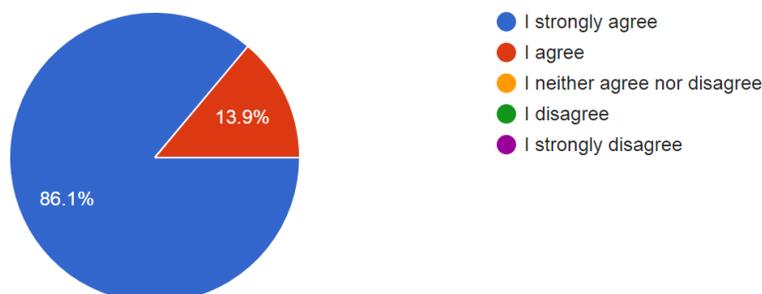
I would have added a coffee-break (or just a short break) in between the 3 hour lectures (2 continuous lectures). It was too long and tiring and it was very difficult to focus specially on the last one.

The length of the lectures. 1 ½ or 2 hs. lectures are OK but not 3 hours. (El tiempo de duración de las clases. Clases de 1 hora y media o 2, pero no 3.)

For me it was very well organized taking into account the effort and that it is not easy to organize such an event

26- I will recommend other students or co-workers to attend a future edition of a LACA School.

36 respuestas



27- Please, give your impression about the event in general and/or any particular aspect you want to comment on (including comments on answers to previous questions you want to clarify or enhance).
(text in parenthesis is the original answer if it was not in english)

The School was very succesful and greatly attended my expectations. I think some lectures should be improved (for example, X-ray physics, generation, etc.) and some topics got overlapped (for example structure validation and reports. I think Professors Javier, Florencia and Anthony gave lectures including these topics). The "pratice with own data" sessions could be expanded to two days during the week, perhaps the first for the "theoretical" part of the course (maybe on Wednesday) and for the pratical part. Structure determination with powder data should be the topic of a whole School week. I also reinforce my observation that a lecture on instrumentation should be added to the program and it could include basic components of diffractometers. Finally, I would like to thank the organizing comittee for the opportunity to participate in this School and to congratulate you for such an amazing work!

It was a very intense but interesting School. I believe being able to work with data of our own made a difference in long-term learning of this technique

LACA School was excellent, contributed to my knowledge and my research. I think there should be more time working with our own data.

I think the program was too long for the available hours and this exceded the professors. (Creo que el programa era demasiado extenso para las horas disponibles y que sobrepasó a los profesores.)

This was a high-quality event, I am very happy with the organizers. Congratulations. (Fue un evento de calidad y estoy muy contento con mis compañeros organizadores. Felicitaciones.)

As I mentioned before, the School exceded by far my expectations. (Como mencioné en una de mis respuestas, el curso superó totalmente mis expectativas.)

At the end of the school I was very thankful to have atended because I managed to acquire and deepen my knowledge on crystallogrpahy, that is the base for my posgraduate studies. (Al terminar la escuela, estaba muy agradecida por poder asistir, ya que por una parte logre adquirir y profundizar el conocimiento sobre cristalografía, el cual es la base para continuar en mis estudios de postgrado.)

The school achieved to englobe Crystallography from the beginning, with the history introduction, towards the experimental part, fundamental concepts, data collection and

processing, and the way to process our own data. I understand that when it is intended to give a general view, all main topics are displayed and that sets a good baseline for those who want to know a little more about what Crystallography is, and also for those who already do work in that area, as it is my situation. Even though I had already been working in this discipline on my master studies, I learned new things from every lecture, and that is why I believe this school is a strong contribution for people and it deserves to offer new editions so as to spread the voice of Crystallography even more throughout Latin America. (A escola conseguiu englobar a Cristalografia desde o princípio, com a introdução histórica, quanto a parte experimental, fundamentos, coleta e tratamento de dados, e caminhou para o tratamento dos próprios dados. Acredito que por dar uma visão geral, e que passa por todos os principais tópicos, dá uma base boa a quem quer compreender um pouco mais sobre o que é a Cristalografia, e também pra quem já estuda, como é o meu caso. Mesmo já tendo realizado a disciplina no mestrado, aprendi coisas novas em todas as aulas, por isso acredito que tem fortes contribuições e que precisa de novas edições para disseminar ainda mais a Cristalografia pela América latina.)

Every topic of the school was largely useful and interesting. All lecturers demonstrated a domination of their subjects and knew how to project them correctly. Both the organization and the hosting were excellent. (Todos los abordados en la escuela fueron sumamente útiles e interesantes. Todos los profesores demostraron dominar los temas tratados y supieron transmitirlos correctamente. Tanto la organización como el recibimiento fueron excelentes.)

Congratulations again, and see you next time! (Felicitaciones nuevamente, y hasta la próxima!)

In general, there was a very good impression (En general la impresión me ha parecido muy buena)

The School was very productive. I want to thank the organisers for all the hard work it took to get this School done. I am eager to see what the LACA Schools can bring to Latin America in the future, and this first edition sets a very high bar for all the following events.

It was a great opportunity to learn about this theme and to get to know people from other countries. I got interested in crystallography because of this school and I want to keep learning.

It was very well planned. (Estuvo muy bien planificado)

In general, the event had an excellent organization, as well as the lecturer staff couldn't have been any better, because they were expert in their own topics and everyone had the best disposition to teach and clarify any doubts from students. In the same way, the local organizing committee did an excellent job making every participant feel like being home. (En general el evento tuvo una organización excelente, así como el cuerpo docente que en mi opinión no pudo estar mejor, ya que había expertos en cada uno de los temas a tratar en el curso y cada uno de ellos tenía la mejor disposición para enseñar y aclarar las dudas de todos los estudiantes. De igual forma el equipo organizador realizó un trabajo excelente haciendo sentir como en casa a cada uno de los participantes.)

The school was very important for my academic and personal growth. I had the opportunity to learn very well how to establish collaborations and friendships that will surely make a lot of difference in my life. I have no negative aspects to highlight and I say this with great happiness.

The event was excellent.

I was very satisfied with being part of this event and I have in general a very good impression of the 1st LACA School. (Fiquei muito satisfeito em ter participado deste evento e estou com muito boa impressão da 1st LACA School de uma maneira geral.)

The event was really good, regarding the attention offered and the preparation of the lectures. We received a very good back-up material for each one of the presentations and we were treated personally to solve any kind of individual issues. I believe there should be more help for aged professionals who work with young people, so we can give them a better orientation in this area that is so important in chemistry. I'm not necessarily pointing out that they should be helped in every way, but it would be good for some travelling expenses from our countries of origin, in addition to accommodation fees. This would also help some researchers that are not so young but work in synthesis to be more interested Crystallography. (El evento fue muy bueno, en atención, en preparación de los profesores presentadores. Se ofreció muy buen

material de respaldo para cada una de las presentaciones y se nos atendió muy personalmente lo que fue muy bueno para solucionar problemas individuales. Creo que se debe apoyar más a profesionales que ya no somos jóvenes, pero que trabajamos con jóvenes para que podamos darles una mejor orientación en esta rama tan importante de la química. No necesariamente digo que se le apoye en todo, pero si con algunos gastos, ya que el transporte desde nuestros países de orígenes son muy costosos, sumados al costo del hotel. Esto ayudaría además a muchos investigadores, que ya no son jóvenes y que trabajan en el campo de la síntesis, se interesen más por la cristalografía.)

An excellently formative instance (Una excelente instancia formativa)

It was a great event. I certainly hope it will continue

Send the students the programs to be installed, and perform a section to check if they are working on all participants' computers

It was a great school. I've learned a lot and increased my interest in crystallography. I've really enjoyed all the experience. Also, all the friends and contacts that I made were invaluable for my personal growth. I will miss everyone. The most valuable thing was to share experiences of crystallography and chemistry. I strongly believe that these bonds might increase the cooperation between latin american universities to do research in this area. Because it was a latin american event, I've increased my vision of the world and all the possibilities to do my master or doctorate studies in other contries. I think that this school will improve my research. I really want to thank you all for this experience. Lecturers were really passionate and open to talk about the topics. THANKS! Natalia Alvarez, Guzmán Peinado and Leopoldo Suescun for all the effort you made.

very good

My general impression over the event is that it had a really good organization for the few days of the school and the many topics presented covered a lot of aspects about theory and practis of the crystallographic technique, which I think was on point. From my point of view, I would have appreciated more time on the practical sessions or that each lecture had an instance included for using the software. And maybe make more intensive the refinement when someone deals with twinning or disorder, which are difficult to solve. (Mi impresión sobre el evento en general es que tuvo una buena organización en los pocos días de la escuela y por otra parte la cantidad de tópicos presentes abarcaba una gran cantidad de aspectos sobre teoría y práctica de la técnica cristalográfica, lo cual me parece excelente. Desde mi punto de vista, me hubiese gustado tener más tiempo de práctica o que cada lectura hubiese incluido una en referencia al uso de los softwares. Y quizás hacer más intensivo el refinamiento cuando se tienen twins o desórdenes difíciles de resolver.)

The event was great for growth and learning, somehow managed to approach the steps and crystallographic fundamentals.

The school was very well organized. The schedule was followed as it was previously announced. The participation of every professor I think was excellent, both concerning the level of the lectures and the enthusiasm in which they imparted their knowledge. Although some topics were unknown for me, they achieved my understanding without many difficulties and always left accessible material so that we could deepen our learning process. I felt a really good treat coming from the organizers and collaborators, always attending our necessities. (La escuela estuvo muy bien organizada. Se cumplieron los horarios de las clases tal como estaban previstos. La participación de todos los profesores me pareció excelente, tanto en el nivel de sus clases como en las ganas y el entusiasmo que todos pusieron para impartirnos sus conocimientos. Si bien algunos de puntos abordados eran desconocidos para mi, lograron que yo entendiera sin muchas dificultades y siempre dejaron material accesible para que pudieramos profundizar luego. Sentí un trato muy agradable por parte de los organizadores y colaboradores, siempre pendientes de nuestras inquietudes.)

Very intense but very good

Just a personal "complain": I don't know why I was out of the mailing list and all the information came to me late. Better late than never though! =)

For the moment, I have not any comments about it all is OK the organization was very efficient in all aspects

The event met the expectations. (El evento satisfizo las expectativas.)

I liked the school and it seems very useful to acquire knowledge about crystallography. Maybe you would prefer that it be dictated with a lower daily workload

It was great! very productive and rewarding to have gone to LACA

Agradecida totalmente por la hospitalidad, tanto en las horas de la escuela como las actividades extra, agradecida también de la comprensión y atención en algunos cuidados en mi caso por el embrazo (ya sabrán quien soy), el curso muy bueno tanto en los contenidos, como los organizadores como los profesores del programa, lejos Natalia, Guzmán y Leopoldo los mejores anfitriones, gracias por soportarnos, apoyarnos, acompañarnos, ser directos y claros siempre, se veían apocados los malos ratos y por menores que se pasan personalmente. Agradecer solamente sus tiempos y dedicación, gracias a personas como ustedes uno aprecia los detalles bellos como el compañerismo y que no importan los idiomas, las banderas, las nacionalidades cuando se trata de cristalografía, ya sea aprender con Beto y los comandos diabólicos 666, con Florencia y criticar en gel :O, con Leopoldo saber que está la matemática detrás en todo con matrices, con Anthony sus introducciones y las animaciones por WhatsApp (por parte los alumnos), Silvina con sus polvos y que jugaba con sus gafas, Bruce y el programa de bruker bello para aprendices, Javier con sus fundamentos, el cif y las mil plataformas y finalizar lejos con la música de Miguel. Todos siempre dispuestos a ayudar en la mínima consulta que fuera, sólo agradecer y todo lo que haya salido de sus manos o haya salido mal, jamás se notó, simplemente gracias totales, los esperamos en Valparaíso - Chile, para ir y devolver la mano de las salidas y hospitalidad de Uruguay.

In General very well, the food coffee and above all the financial support they could provide to students, that is important to be able to attend and take advantage of the knowledge in this important methodology. I appreciate the scholarship provided. I just think that you could cover less and deepen more, since the critical mass of information is high in relation to time and it would be more profitable to deepen more on topics that you consider most important for people who are new to the field of crystallography.

This event was very useful for me and my professional formation. The speakers were experienced people that shared us their work area and they taught us very important concepts about single crystal crystallography. Meet the equipment and make our own refinement was a good experience, because this allowed us clear out some doubts about the data processing.

28- Please, comment on any aspect you want and use this space to thank the IUCr or the CCDC if you were beneficiary of a Travel Support Grant.

(text in parenthesis is the original answer if it was not in english)

Quiero agradecer por el apoyo que se me otorgó para la estancia y los gastos locales, los cuales fueron de mucha ayuda y un factor definitivo para que pudiera asistir a la escuela.

Sin duda el beneficio otorgado por la IUCr fue determinante para mi participación en la escuela, ya que sin este beneficio no hubiese podido asistir.

Eu gostaria fortemente de agradecer o suporte da IUCr, e também de hospedagem do evento, pois sem isso provavelmente não seria possível minha participação no evento.

-

IUCr has been very supportive for me, as they have funded my assistance to numerous events in different ways. I am very thankful for their role in my crystallographic and scientific formation, and I am devoted to giving back to the crystallographic community in the future.

El futuro de nuestra sociedad en mi opinión estará marcado por el interés que las organizaciones le otorguen a la investigación científica, y éstas escuelas son una de las

evidencias de que en Latinoamérica también se puede apoyar y realizar eventos de esta magnitud en donde todos y cada uno de los asistentes son grandes ganadores de lo aprendido en este evento. Es por esto que personalmente quiero agradecer a todos los patrocinadores y en especial a la IUCr por el apoyo económico brindado para mi asistencia a este curso que a mi parecer ha sido uno de los eventos que más ha contribuido a mi formación profesional y científica.

I thank the organization of the event as well as the sponsors, which were also fundamental to the school.

To IUCr and CCDC thank you very much.

Este tipo de evento é muito importante para geração e divulgação de conhecimento, bem como para aumento da interação entre pesquisadores de diversas áreas e lugares, portanto sou muito grato à organização e à IUCr.

Claro que agradecemos mucho a estas instituciones que corrieron con los gastos de este evento, y los exhortamos para que sigan abonando en el crecimiento de esta rama de la ciencia la cual ha quedado muy a la retaguardia en la mayoría de nuestros países latinoamericanos, tal vez no por la falta de interés de sus científicos, pero si por la limitación de equipamiento necesario por lo costoso.

Gracias a todos los organizadores y panelistas

I would like to thank the entire organization of the school and all the teachers who contributed to my learning. I would like to thank IUCR and the CCDC for the support and financial support received.

Quiero agradecer a la IUCr por su apoyo a los estudiantes. Considero muy positivo el interés de la institución en apoyar y fomentar el estudio de la cristalografía en regiones como la nuestra, en un muy alto nivel.

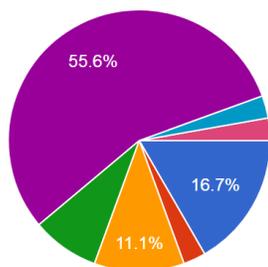
Thanks to the organizers, the institutions and everyone who worked hard to make this school happen and who financially supported the event. It was perfectly organized and we learned a lot. I strongly encourage everyone involved to keep on organizing these kind of events.

Agradecería pero no fui beneficiario de apoyo de viajes, sólo de estadía y transporte que el cual agradezco enormemente, ya que me permitió poder asistir.

As I already mentioned what you are doing is very important and mainly for me that I am starting and I am the only one in Paraguay who decided and is working in organometalic complexes without having an X-ray Diffractometer thanks to the important contribution of Leopoldo Suescum and Udelar of Uruguay . Infinite Thanks to all

29- Are you registered in the World Directory of Crystallographers WDC (<http://www.iucr.org/people/wdc/>)?

36 respuestas



- I knew the WDC and was already registered before the school
- I knew the WDC but decided to register while attending the school
- I knew the WDC but decided not to register
- I didn't know the WDC and decided...
- I didn't know the WDC and I'm not r...
- I did not know the WDC, but I will re...
- La verdad no recuerdo si estoy regi...