NEWSLETTER

Society of Crystallographers in Australia and New Zealand

SCANZ PRESIDENT'S REPORT

SCANZ members have benefitted from an active local conference program over the past three years with three fantastic meetings in the post-COVID era; the 2022 Crystal34 meeting, the 2023 IUCr Congress in Melbourne, and the recent 2024 Crystal35 meeting. We have been lucky to have the resources to run and host these meetings as a society and have benefitted from the dedication of conference chairs and





At the strategy meeting held in early 2024, we also agreed to put more regular investment into student and early career researcher members, with more Maslen scholarships to a wider cohort of members. There were some good points raised amongst Council and in



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the Business Meeting at the Crystal35 conference that there are other cohorts within the society that also need support and recognition. An example where we do provide this is the Maureen Mackay Travel Awards which support carers in all forms, not just those with young family caring responsibilities. Council also set about refreshing the SCANZ vision, with several revised vision statements having been developed and put to members. While it was not a clear-cut decision, the statement supported by most respondents appears on the SCANZ website (<u>https://</u> <u>scanz.iucr.org/</u>). The strategy meeting outcomes also necessitated some changes to the Society's constitution, along some corrections

needed to tidy and modernise the document. These were put to the membership for feedback and then presented to the attendees at the Crystal35 Business Meeting. As a result of the Business Meeting, the Rule changes are now in effect (e.g. meeting definitions, membership and standing committees), while the changes to Articles will now be put to the community for formal voting.

The Crystal35 meeting held in Fremantle was a fantastic representation of the breadth and quality of science done by our community. The meeting had all the features of a great Crystals conference: excellent award lectures, fantastic joint keynote sessions, well-attended concurrent sessions and brilliant poster session with a real buzz of discussion around each poster. Many thanks to previous SCANZ President Charlie Bond, and the organising committee (Mihwa Lee, University of Melbourne; Stephen Moggach, University of Western Australia (UWA); Joel Haywood, Curtin University; Rhys Grinter, Monash University; Stephanie Boer, ANSTO; Gemma Turner, UWA; Luke Smithers, UWA; and Crystal Cooper, UWA) for the excellent event.

The Business Meeting was efficiently conducted at lunch on the second day of Crystal35 and involved the normal changes to the Council. Charlie Bond stepped down as President and into the Immediate Past President role. Charlie has invested considerable time into strategy and made sure that council business was conducted with integrity, ensuring we declared conflicts of interest and formally approved actions, even out of session. Emily Parker steps up to be Vice President after a term on council and ensures a strong link to the NZ community is maintained; the aim will be to grow NZ membership and provide member benefits to NZ crystallographers. Stephanie Gras (La Trobe, Mathieson medallist in 2022) joins the Council for a three-year term, but as I write we still await the confirmation of the Australian National Committee for Crystallography (ANCC) representative.



As of November, the SCANZ Council is as follows:

President - Chris Sumby Vice-President - Emily Parker Secretary - David Turner Treasurer - Jack Clegg Immediate Past President - Charlie Bond Council Member - Lauren Macreadie Council Member - James Hester Council Member – Stephanie Gras ANCC Rep - vacant NZCC Rep - Kurt Krause Newsletter Editor - Michelle Miller

I would like to finish with some other things to look out for or contribute to in 2025.

- Encourage people in your local communities to apply for SCANZ awards and travel support.
- Suggest Honorary Life Members. The Council has a list which it will action in due course.
- Let us know about crystallographers that should be recognised with national honours. Again, Council is actively working on nominations.
- As we heard at the Crystal35 meeting, new synchrotron beamlines and upgraded Australian Centre for Neutron Scattering facilities are online or commencing operation.

Have a happy and relaxing summer break and a successful 2025!

Chris Sumby - SCANZ President

VALE STEVE HARROP

In November, we heard the sad news that Steve Harrop from the Australian Synchrotron had unexpectedly died. The passing, at too young and age, of a member of our SCANZ community gives us all pause for thought. It is a reminder to take care of ourselves and our valued friends and colleagues. As demonstrated by the beautiful Memorial hosted by the Synchrotron and attended by Steve's mum, Steve will be sorely missed not only by the MX team and users, but by many others around the world whose lives he had enriched. Farewell Steve from your crystallography community.

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SCANZ PAST PRESIDENT'S REPORT

It was great to see so many SCANZ members, and so many excellent research talks and posters, at Crystal 35 in Fremantle this October. It really struck home to me what an excellent community we have, and one which is worth supporting and cherishing into the future. I also enjoyed the focus in the conference programme on inviting outstanding speakers from our Indian Ocean Rim and Asia-Pacific regions, including Japan, South Africa, Korea and Singapore. I would like to offer heartfelt thanks to the Crystal35 Organising/ Program Committee: Mihwa Lee, Stephen Moggach, Crystal Cooper, Joel Haywood, Gemma Turner, Luke Smithers, Rhys Grinter, Stephanie Bird, and the team from ASN.





As usual the Business Meeting resulted in change of the SCANZ Council, with Chris Sumby now moving into the President role and Emily Parker as Vice President. Chris and Emily have been strong contributors to the strategy work that Council undertook over the last two years, and the commitment, capability, and continuity that they provide are of great value to the Society.

As I mentioned in my President's report to Crystal 35, a highlight of my tenure was the 2023 26th Congress and General Assembly of the International Union of Crystallography in Melbourne. The congress was a tremendous success, showcasing Australian and New Zealand structural science on the world stage. Many thanks to a host of SCANZ members for the organisation, under the leadership of Michael Parker, and thanks to everyone who participated in the scientific program to make the second ever Australiasian IUCr a resounding success.

A particular highlight for me was the Bragg Your Pattern outreach activity, and the giant model of diamond which occupied more of my time at the conference than I should probably admit. SCANZ funded a substantial part of the cost of outreach at IUCr, including the giant diamond model, we have gone on to support the packaging and distribution of chemical element sets, and molecular models sets to schools across the nation. Many thanks for leadership and sheer hard work in this space by Helen Maynard-Casely and Stuart Batten (and others!). Now that we have instituted a SCANZ Science Communications Committee we hope that ongoing commitment from the Society will see outreach continue and expand.



Among other initiatives that were discussed in early 2024, at the Council's strategy meeting, facilitated by Mark Stickells (Pawsey Centre, and Governance Chair of Science and Technology Australia) was continuing the rebuilding of links to the New Zealand community. With Emily Parker in the seat of Vice-President, and Kurt Krause's ongoing support at NZ National Committee for Crystallography rep, the scene is set for stronger links across the continent.

As we look to 2025, I encourage you to advertise the benefits of SCANZ membership to staff and students around you. There are few Societies that are able to offer some of the bursaries and education opportunities that SCANZ does, but SCANZ does more than that, offering such a diverse and supportive community. It has

truly been an honour to act as SCANZ President.

-Charlie Bond

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CRYSTAL35 AWARD WINNERS

1987 Fund Speaker So Iwata







Rising Star Award Winners Charles Bayly-Jones (Monash) Isabelle Jones (UWA) Katherine Davies (WEHI) Hunter Windsor (USyd) Rebecca Frkic (ANU)

Poster Prize Winners Aston Summers (UWA) *IUCr Journals*

Prize Maria Nicholas (USyd) CCDC Prize Dean O'Brien (UQ) UWA X-ray Crystallography Facility Prize Emma Knowling (UWA) UWA School of Molecular Sciences Prize Ashleigh Kropp (Monash) Perth Protein Group Prize





Mathieson Medal (2023) Neeraj Sharma (UNSW)



Lawrence Bragg Medal (2024) Jenny Martin (Griffith)



Mathieson Medal (2024) Jack Clegg (UQ)

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MASLEN CRYSTAL35 HIGHLIGHTS

Vivian Shang

Crystal35 in Fremantle was a fantastic opportunity to connect with the wider chemical crystallography community around Australia, particularly with those from WA. It was great to catch up with old friends and make some new ones during both the research presentations and the social events over the course of the conference. I thoroughly enjoyed Prof Neeraj Sharma's 2023 Mathieson Medal Lecture, just one



highlight from a conference covering a wide breadth of interesting research avenues. After presenting our research at the conference, those of us from the east coast couldn't miss a visit to Rottnest Island for some snorkelling and quokkas to finish up a great trip.

Maria Sanchez Echeverria

I am on the first year of my PhD so, in my case, this has been the first big conference that I have attended. I didn't know what to expect but I left very glad I was given the opportunity to come. I thought it would be like attending the seminars I have been seeing at university, but it didn't feel like lectures, it felt more like a



group of researchers sharing an interest or a challenge and people from different fields or research groups engaging to actually solve it. If I had to choose my favourite part of the conference , it would be that sensation of community, of not just showing your work but bringing it to a place where you know everyone there could add something to it, give you a new perspective or idea.

When it comes to organization, I appreciated the schedule. There was enough time to chat and rest, social events where great, food was good and the talks were also very well prepared with smooth transitions, didn't feel heavy despite the amount of speakers.

I'm excited to attend more conferences like this further into my PhD so that I can enjoy and participate as a more active member.

Mia Brennan

With the support of the Maslen scholarship, I had the pleasure of attending the 35th SCANZ meeting, Crystal35, hosted in the beautiful city of Fremantle. The conference was certainly a highlight of my year, and I was fortunate to have the opportunity to give a presentation on my work. I am particularly thankful for this as I believe it helped pave the path for a post-doctoral opportunity in the future. The talks were excellent. Jack Clegg's talk on flexible crystals and watching a video of one being tied into a knot will be something I won't forget. I want to thank the SCANZ community for creating a relaxed, friendly, and welcoming atmosphere. It let me connect with old friends and gave me the confidence to make new ones.

Robert Walwyn

I thoroughly enjoyed my time at Crystal35 as the conference felt like it was of the right size that it was easy to attend all of the talks relevant to my area and not feel overwhelmed with having any key clashes of seminars. I had good opportunities to properly engage with a wide variety of my peers (including some that I had met at the SCANZ/ANSTO crystallography school earlier in the year) and hear some of the latest

developments in crystallography from experts around the world. I particularly enjoyed the talks hearing about high throughput crystallography from Amy Thompson based at one of the UK synchrotrons and various other news regarding upcoming beamlines at the Australian Synchrotron, as well as from Kasun who is based at the University of Queensland regarding Electron Diffraction (which is highly relevant for what I am working on).

I also felt that the poster I presented at this conference resulted in much more deep engagement than I have previously experienced at other conferences, probably due to the slightly reduced number of posters being presented in a given session. I enjoyed having some proper scientific discussions with people to try and figure out what is going on with some of the systems I have been working on.

Lance Zhang

It's a great honor for me to join the Crystal 35, which is the first conference I attend. To be honest, it was extremely different from what I imaged of an international conference, I had seen pervious conference based on news and internets, it's a paradise for every academic who wearing formal suits. Crystal 35 is cozy and relax, which is the first and final impression to me, but I like it very much. The location, the presentation... all of that is amazing. Thanks for giving a change.

The most impressive presentation is given by Prof. Jennifer Martin -- Lawrence Bragg and Me: A Triple-C Origin Story. Not only cause it's the only history course we had (in fact, as a newcomer to materials chemistry, we are a little bit lack of understanding about historical process of crystallography). During Jennifer's presentation, we had known about the evolution of crystallography, and history of crystal database. Thanks to Jennifer for opening our eyes to a different materials chemistry.

Ahmadi (Didi) Permana

As an international student, attending Crystal35 was a remarkable opportunity to engage with the global

crystallography community. Held in the beautiful city of Fremantle, the conference featured inspiring presentations from leading experts, offering invaluable insights and opportunities for networking. Two talks stood out for their impact on my research: *"Crystallography of Oxides, Battery Materials, and Entire Devices"* by Professor Neeraj Sharma and *"Predicting Crystal Growth from Solution via Intermolecular Interactions"* by Professor Peter R. Spackman. Professor Neeraj's discussion inspired me to explore energy applications for oxide materials, while Professor Peter's session provided a deeper understanding of crystal growth prediction using computational approaches—an essential tool for my work in growing single crystals. These talks not only broadened my perspective but also offered practical ideas to enhance my research methodology.

The poster session was another highlight, as I received constructive feedback from fellow participants that will help shape the next steps of my PhD. Their suggestions to investigate ionic conductivity and refine neutron diffraction data have opened new directions for my work. This collaborative exchange was invaluable and showcased the supportive nature of the crystallography community. The conference concluded on a joyful note when I was awarded a set of "proton, electron, neutron, and photon" dolls from ANSTO, adding a memorable touch to the experience. I am deeply grateful to The Maslen Scholarship for enabling me to



participate in this enriching event, which has significantly advanced my knowledge, skills, and motivation for future research in crystallography.

Caleb Bennett

Attending the conference in Perth was an excellent experience, with the coastal location adding to its appeal. The proximity to beautiful beaches and the opportunity to swim provided a refreshing backdrop to the event. Highlights included engaging and memorable talks by Neeraj Sharma and Jennifer Martin, whose

storytelling and presentation styles stood out. My own research was well-received, sparking many interesting conversations and initiating potential future collaborations. Outside the conference, I took advantage of Perth's natural beauty, hiking along Kitty's Gorge and snorkelling at Rottnest Island—both unforgettable experiences that rounded out a rewarding trip.

Maria Nicholas

In late October of 2024, I was fortunate enough to attend the SCANz Crystal 35 Conference, held in Fremantle Perth. This was my first time visiting Perth and Western Australia so I was awaiting with keen anticipation. The beaches of Fremantle were fantastic, and on our very first evening we were lucky enough



to catch the sunset on the water. This of course, is not possible on the east coast of Australia. It's worth noting that I've now officially visited all the states of the main continent of Australia! Only Tasmania remains (perhaps a future Crystal meeting can be held there?).

The conference started with a welcome function on the Saturday evening which gave everyone a chance to socialise with one another. Day 1, I had my poster presentation. Standing by my poster I had the opportunity to do the one thing I really excel at – talking excessively. I stood and talked to many different students and academics about my own research that focuses very

narrowly on uranium oxide crystal structures. Despite being in a bit of an obscure field, I felt that many crystallographers from varied backgrounds were interested and also provided very valuable feedback. Throughout the conference, all speakers were fantastic, including the Bragg Medal Lecture, given by Jennifer Martin, that really stood out and finished off the formal conference with a bang. Other notable talks that I found to be a highlight included the Mathieson Medal lecture given by Jack Clegg. I very grateful to have received a poster prize at the conclusion of this conference. This has now given me bragging rights in my university group, as well a diffraction themed t-shirt which I haven't taken off since. The SCANz Crystal 35 conference was overall a very enjoyable opportunity for me as a mid-way PhD student. I am glad I had this opportunity to connect with crystallographers, including students at the same stage as me and academics with much more expertise than I could ever hope for. Thank you to SCANZ for provided me with the Maslen scholarship to allow this wonderful experience.

Catriona Thomson

I thoroughly enjoyed attending Crystal35, especially as it was my first time in WA! I was very impressed by the high calibre and diversity of talks and posters presented. I really enjoyed the keynote and plenary speakers and -as a chemical crystallographer- especially appreciated how accessible the biological talks were. The opportunities to network with fellow crystallographers was great and I enjoyed the

professional, yet laid back atmosphere of the conference. I'm looking forward to the next Crystal conference in a couple of years!

Santana Royan

I am profoundly grateful to SCANZ for a Maslen scholarship that provided me with travel funding to attend the Crystal 35 meeting in Fremantle this year. This conference was very close to my heart as I did my PhD in Perth under the supervision of the organiser of this year's meeting, and I was able to take the time before the meeting to spend time with my parents and brothers.

There was an incredible amount to do at Crystal 35 in such a short timeframe, with great talks, lots of opportunities to for networking, superb food, and a great venue. When I could bear to tear myself away from the sunny outdoors, there was some quality science on display with David Jacques' and former



Bond lab colleague Gavin Knott's talks as standouts for me. Neeraj Sharma's engaging and entertaining lecture (with apt interruptions from the fireworks) was an unexpected highlight talk from the non-biological side of SCANZ.

It was a privilege to present my work on bioplastic degrading enzymes during one of the poster sessions, and I had lots of discussions with PIs, other ECRs and PhD students on my work, the field and new directions. I look forward to the next Crystal meeting, and hope that it once again continues to be the highlight of the crystallographic community in Australia and New Zealand.

Yan Zheng

I would like to express my great thanks to the Crystal 35 organizing committee for the excellent conference arrangements and for selecting the beautiful Fremantle as the Venue. I am also deeply grateful to all the researchers for their insightful talks and inspiring poster presentation. As a first-year PhD student, this conference provided me with a wonderful opportunity to deepen my understanding of crystallography field and to build connection with other research fellows and peers. I am especially thankful for the support of the SCANZ Maslen Award, which provided support to my travel. Additionally, I would like to thank the Solid-State Group for making the experience even more enjoyable, we shared a truly perfect time together in Fremantle!



Nada Alenzi

I'm Nada Alenzi, Winning the Maslen scholarship and getting to attend Crystal 35 was an amazing experience! Being around so many experts and fellow researchers was both exciting and a bit nerve-wracking at first, but presenting my work and hearing their feedback was totally worth it. I came away with tons of fresh ideas and inspiration, plus I got to meet people who are just as passionate about the field. The conference not only helped me build connections, but also gave me a new perspective on where I want to take my research next.







Australasian Crystallography School 2024 2-6 September 2024 Australian Synchrotron

The school was a great success, and it was very good to have access to the Australian Synchrotron.

The National Centre for Synchrotron Science (NCSS) facility is great for the lectures, to welcome participants, to give the opportunity to the participants to visit the synchrotron (tunnels and beamlines) and meet the beamline scientists. Like this the participants can start their network with new collaborators and researchers that can help them for their career and research.

It is important for students and ECRs, especially as Crystallography can be performed remotely on the MX beamlines, that the beamline scientists are here to assist with their set up, but also are a fantastic source of knowledge and very good teachers on top of it. Having the school at the synchrotron, and keeping it there, will ensure to maintain this link and collaboration for future generations of crystallographers.

We are grateful to all our sponsors that kindly supported the SCANZ school, allowing us to keep a low registration price for our participants (students and early career researchers) to benefit of high-quality teaching and practical in the field of crystallography.







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MASLEN CRYSTAL SCHOOL HIGHLIGHTS

Simona Capomolla

The Crystallography school from SCANZ last September was extremely instructive and helpful for my further research. I was amazed at the large number of (prospective) crystallographers in Australia and New



Zealand. The atmosphere in this community was simply unique and great for making new contacts and expanding your network. I took part in the CX Stream and the various workshops on structural solutions, data processing, PXRD and CCDC were very exciting. What I liked best was



that we were able to apply what we had learnt in the subsequent refinement tutorials and that experts were on hand to give advice if needed. Other highlights of the Crystallography School for me were the tour of the 'tunnels', where we were able to see the inside of the synchrotron, and the conference dinner, where we again had the chance to interact with like-minded people from all over OZ. The Maslen scholarship enabled me to take part in the crystallography school, for which I am very grateful.

Scarlet Hopkins

Attending the SCANZ Crystal School was an amazing learning and professional development opportunity. Over the five days I was able to immerse myself in theory and build foundational knowledge. Undertaking the tutorials was an incredibly valuable experience. All of the lecturers were friendly and helpful, and provided us with a range of problems that allowed us to establish our skills and challenge ourselves. The CX stream introduced a themed tutorial stamp collection which encouraged us to work through different challenges and recognised our hard work. Aside from the learning experience, the school provided us with many opportunities to connect with peers from across Australia and New Zealand. As someone who attended the school without knowing anyone prior, the social nights and collaborative tutorials fostered friendships. Overall, the school was an incredible experience which contributed greatly to my crystallography knowledge and practical skills.

James Brookes

In September I had the great privilege of attending the 2024 SCANZ Crystallography School at the Australian Synchrotron. This school provided me with a great foundation of knowledge on the essentials of crystallography, as well expert knowledge, and tips from some of the best crystallographers in the world. The lectures from experts in the field were crucial for my crystallography journey, and I will carry the knowledge I have learnt with me throughout my career. My favourite lectures were on the foundations of crystallography by Charlie Bond, maths for crystallography by Stephen Moggach, and powder diffraction by Helen Maynard-Casely. I also had a great time meeting some fellow students from around Australia. I would like to thank SCANZ and the Maslen Scholarship for this fantastic opportunity.

Sophie Booth

Being able to attend the SCANZ Crystal School held at the Synchrotron as a recipient of the Maslen Scholarship provided me with a significantly deeper understanding of all aspects of crystallography; from understanding the basic principles to running samples and processing data to obtain crystal structures ready for publication.

The highlights of the experience, as an attendee of the CX stream, was the tutorials where we could put into practise the variety of tips and tricks we had been provided with. It was incredibly useful to be able to troubleshoot any issues we had previously and to tackle the challenging examples they had to learn how to resolve the issues that can arise. These tutorials as well as the session where we learnt about how to prepare our processed files for publication is something that will be invaluable moving forward. Further, the school

allowed for a detailed tour of the Synchrotron 'tunnels' providing insight on how the Synchrotron operates and the really cool science behind it. I also really enjoyed meeting members of the Australian Crystallography community, building connections and learning from a variety of experiences.

Kavisha Sarma

I attended the SCANZ crystallography school in September at the Synchrotron as a recipient of the Maslen Scholarship. I chose to attend the Crystal XRD stream as this was most relevant to my research and I enjoyed every session. The general stream was all very interesting for the first two days but I especially enjoyed the last few days when we were separated into protein and crystal XRD as I was able to get a more specialised insight into processing and analysis that is helpful for my future research. Having the sessions presented by different people allowed for a broad range of new information and perspectives that was very educational. My favourite sessions were definitely the refinement workshops as it was incredible valuable to be able to apply what was being taught hands on while there were knowledgeable people in the room who could trouble shoot any problems I encountered. I learnt a lot about how to deal with any issues in my structure and different strategies to help refine structures as effectively as possible. Thank you again for awarding me the Maslen Scholarship which allowed me to attend the SCANZ crystallography school.

Aston Summers

I had a fantastic time attending the crystallography school and learnt a lot from the wide variety of experts teaching. A highlight for me was the lecture delivered by Stuart Batten on the history of crystallography as I found it enlightening to see the hard work and dedication that has led to how we perform crystallography today. The chemical crystallography stream was enjoyable and very well run; the hands-on workshops were a brilliant opportunity to learn in a way that a textbook or set of lectures cannot compare to. Having the school at the Australian Synchrotron was great as the venues were fantastic and allowed for plenty of opportunities to connect with peers in the evening, plus the tour through the synchrotron tunnels was awesome!

Ben Krinkel

Attending the crystallography school was immensely beneficial for my work, as it clarified several areas in the protein crystallography field that I previously found challenging and taught us new techniques which

was exciting. I also cherished the opportunity to connect and network with peers from various institutions and build some connections that have since flourished! A standout session for me was Stuart's presentation on symmetry and Bragg's law, where he used lasers to reinforce the teaching content—an innovative and engaging approach! I am deeply grateful to SCANZ for the Maslen funding and extend



my thanks to all the lecturers and organizers for creating such an enriching and enjoyable week of learning.

Helen McGuinness

What struck me most about attending the 2024 Crystallography school was the amazing sense of community. From the friendly rivalry between the protein and chemical crystallographers, to discussing each day's lectures and workshops together in the evenings, it was wonderful to meet and learn with other crystallographers from across Australia and New Zealand. There could have been no better place to do it than the Australian Synchrotron, where getting to tour the tunnels, and watch the livestream of the MX3 first light were definite highlights – along with Stuart Batten's demonstration of Bragg's law with coloured laser pointers and CDs, DVDs and a phone screen!

MAUREEN MACKAY AWARDS

SCANZ recognises that that caring responsibilities can severely interrupt, delay or otherwise constrain academic careers and that conference attendance is critical to career development, forging new collaborations, raising researcher visibility in the community and generally enriches scientific research.

This new award (established in 2023) is provided to Society members who need financial assistance to offset the primary carer responsibilities associated with national or international conference attendance. The award is in recognition of the significant contributions of Maureen Mackay to the field of X-ray crystallography in Australia.

NEW MEMBERS WELCOME!!!

SCANZ welcomes new members, particularly from New Zealand. Benefits of membership include:

Global representation through ASCa, IUCr and STA Prestigious Awards Discounted conference fees Exceptionally generous student travel support Information and job vacancy sharing Membership from as little as \$10 per year for students

Membership applications can be made through the SCANZ website, contact your friendly SCANZ committee members if you require a sponsor for your application.

https://scanz.iucr.org/

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