

Committee:	National Committee for Crystallography
Period covered:	1 January 2016 – 31 December 2018
Chair:	Professor Michael Parker
Version and date:	Final – 11 August 2016

Purpose / context	<ol style="list-style-type: none"> 1. To connect the Academy to science and scientists in Australia; 2. To link the Academy to Australian scientific societies in order to work together to promote the development of the discipline; 3. To link Australian science in the disciplines to world science, in particular through the membership of appropriate international organisations; 4. To ensure that Australia has a voice and a role in the global development of the disciplines; 5. To provide strategic science policy advice, to the Academy, as input to Academy science policy statements, and (with the approval of the Executive Committee of Council) to the Australian Government and Australian organisations. 6. To promote development of major national research facilities, such as the OPAL reactor and the Australian Synchrotron; 7. To promote funding for continued access to major international research facilities, including, high flux neutron sources, advanced synchrotron facilities and free electron lasers; 8. To promote the discipline broadly in the Australian community and seek to ensure its representation at all levels of education; 9. To develop and promote plans for the discipline at appropriate times.
Description and objectives	<p>The NC Crystallography is a committee of the Council of the Australian Academy of Science. The broad aim of the committee is to promote crystallography and related disciplines, such as X-ray and neutron scattering and electron microscopy, in Australia to both the general public, the broader scientific community and to the agencies of government and industry that have the potential to benefit from or impact upon or support the science. Further the committee aims to provide a link to the other disciplines that utilise the methods or results of crystallographic experiments and provides the link to the international crystallographic community primarily via the International Union for Crystallography and the Asian Crystallographic Association.</p> <p>The NC Crystallography has been and continues to be deeply involved with the promotion and on-going support of two of the major national scientific facilities in Australia – the Australian Synchrotron and the OPAL reactor both now managed by the Australian Nuclear Science and Technology</p>

	<p>Organisation (ANSTO). Further the Committee is committed to the support of access to relevant international facilities by Australian Scientists.</p>
<p>Coverage</p>	<p>The study of the structure of crystalline and other materials using X-rays, neutrons or electrons; synchrotron radiation, electron microscopy and diffraction, neutron scattering and diffraction. These studies impact on the broader disciplines of chemistry, physics, geology, biology and medicine. There is currently a particular focus on materials science and structural biology.</p>
<p>Linked international organisation</p>	<p>International Organisations: International Union of Crystallography (IUCr)</p>
<p>Key connected organisations</p>	<p>Regional Associations: Asian Crystallographic Association (AsCA); Asia-Pacific Microscopy Society, Asia-Oceania Neutron Scattering Association (AONSA), and Asia-Oceania Forum for Synchrotron Radiation Research (AOFSTR).</p> <p>Links to other National Committees: Biomedical Sciences, Cell and Developmental Biology, Chemistry, Earth Sciences and Materials Science.</p> <p>Australian Societies and Organisations: Society of Crystallographers in Australia and New Zealand (SCANZ); Australian Microscopy and Microanalysis Society; Australian Institute of Physics; Royal Australian Chemical Institute; Australian Society of Biochemistry and Molecular Biology.</p>
<p>Key outcomes</p>	<ol style="list-style-type: none"> 1. Approved committee structure and membership (annual); 2. Approved annual report and budget (annual); 3. Engagement with relevant Australian societies and organisations. Having the President of the Society for Crystallographers in Australia and New Zealand (SCANZ) as a member of the Committee. 4. Engagement with other national committees on matters of common interest. These may include access to and support of major facilities and the deposition and archiving of scientific data. 5. Engagement with the IUCr and other international organisations, including nomination of members of the IUCr commissions and executive and of delegates to the General Assemblies of the IUCr. 6. Investigation of the feasibility of the production of a decadal plan.

	<p>7. Close liaison with the Bragg Institute, ANSTO and AINSE regarding support and development of scientific facilities associated with the OPAL reactor.</p> <p>8. Support for the Australian Synchrotron in part by ensuring mutual representation of the Committee on advisory committees of the Synchrotron.</p> <p>9. Working to obtain financial and other resources to assist in the activities of the Committee including the Australian subscriptions to International Organisations.</p>
Indicative budget	<p><i>(\$3000 provided per annum / \$2500 per ISU meeting. Include all other activities.)</i></p> <ol style="list-style-type: none"> 1. \$3000 per annum for meetings provided by AAS. 2. Up to \$2500 provided by AAS to support attendance at international meetings of IUCr (IUCr Congress and General Assembly, Hyderabad, August 2017).
Approved by / date	Secretary A &B, 11 August 2016