



September 2019 LAAAMP information page

LAAAMP Tasks

Task 1. Develop a **Strategic Plan** for each region to grow and enhance its Advanced Light Sources (AdLS) and crystallography user communities.

Task 2. Establish a **Colloquium Programme** for each region to recruit new AdLS and crystallography users and to advertise LAAAMP projects via invited talks at targeted venues. Also, launch a series of new IUCr-UNESCO OpenLabs, which is a network of operational crystallography laboratories in developing countries aimed at increasing the access to, and utilization of, crystallography in all regions of the world.

Task 3. Publish an Informational **Brochure** that describes AdLSs, crystallography, and the many fields that they impact.

Task 4. Facilitate **researchers' visits** to AdLS and crystallography facilities.

Task 5. Convene a **meeting at UNESCO** to present the regions' Strategic Plans and define the charge for more detailed Business Plans that include feasibility studies of constructing AdLSs in regions where they do not yet exist.

Partner AdLSs

Advanced Light Source (USA)
 Advanced Photon Source (USA)
 ALBA (Spain)
 Australian Synchrotron
 Canadian Light Source
 DELTA (Germany)
 Elettra (Italy)
 European Synchrotron Radiation Facility (France)
 MAX IV (Sweden)
 National Synchrotron Light Source-II (USA)
 Photon Factory (Japan)
 Pohang Accelerator Laboratory (South Korea)
 SESAME (Jordan)
 Siam Photon Source (Thailand)
 Stanford Synchrotron Radiation Lightsource (USA)
 Taiwan Photon Source

LAAAMP Structure

Executive Committee

Sekazi K. Mtingwa, Chair
 Michele Zema
 Sandro Scandolo

Regional AdLS Usage and Strategic Plan Committees

AFRICA - Chair: Simon Connell
 CARIBBEAN - Chair: Carlos Cabrera
 MEXICO - Chair: Matías Moreno
 MIDDLE EAST - Chair: Özgül Öztürk
 SOUTHEAST ASIA - Chair: Rungrueang Phatthanakun

Brochure Editor: Ernie Malamud

Usage Database Manager: Lawrence Norris

Steering Committee

Observers

Partner institutions

AfLS Steering Committee; AAPPS; Cuban Light Source Initiative; EPS; ICSU ROA; ICSU ROAP; INCREASE; ICTP; IUMRS; UCLA Laboratory for Physics and Applications of High Brightness Beams; Lightsources.org; Puerto Rican Light Source Initiative; Sociedad Mexicana de Física; UNESCO Division of Science Policy and Capacity Building; Triseed Consultants; LLC; TWAS

<https://laaamp.iucr.org>

LAAAMP Colloquium at the CIFIESTA

James Hester, a distinguished scientist from ANSTO (Sydney, Australia), delivered a **LAAAMP Colloquium** presentation during the first edition of the Crystallographic Information Fiesta (CIFIESTA), which was held in Naples, Italy, on 29 August–3 September 2019.

Hester's colloquium outlined the types of diffraction techniques typically available at synchrotron and neutron facilities, and provided guidance on choosing the right technique for the experimental problem, developing an experimental plan, and optimal data collection strategies to maximise the benefit from the instrument time.

Over 70 were in the audience, including local researchers and other lecturers of the CIFIESTA and 50 students from locations as diverse as Albania, Algeria, Belgium, Benin, Brazil, Italy, Jordan, Morocco, Peru, Poland, Russia, Switzerland, Tunisia, UK and Uruguay. Hester's colloquium was introduced by **Michele Zema**, member of the Executive Committee of LAAAMP.

James Hester has been working as an instrument scientist at both synchrotron and neutron sources for the last 20 years, and is currently an instrument scientist for ECHIDNA, the High-Resolution Powder Diffraction beamline at the OPAL diffraction group at ANSTO. He is a co-editor of the forthcoming revised edition of Volume G of International Tables for Crystallography, and is the current chair of the Committee for the Maintenance of the CIF Standard (COMCIFs) of the IUCr. Hester's research interests include accurate electron density study, crystallographic data standards, scientific programming, and novel inorganic structures.



Advanced Light Sources: Principles, Designs, Developments and Multidisciplinary Applications

An IAEA/ICTP/LAAAMP/ESRF/Elettra/UJoburg Workshop

The proposal by LAAAMP, ICTP, IAEA, ESRF and the University of Johannesburg has been funded by a joint IAEA/ICTP grant to host a student workshop at the Abdus Salam ICTP under the title "Advanced Light Sources: Principles, Designs, Developments and Multidisciplinary Applications".

The activity will take place from **20 April to 1 May 2020** in the Leonardo Building Budinich Lecture Hall in Trieste, Italy.

<http://indico.ictp.it/event/9080>

The Abdus Salam ICTP has allocated the following resources as its contribution towards the workshop's budget:

- L** Free rooms in the ICTP guesthouses for participants from developing countries and for speakers. All other participants can stay in the guesthouses at their own cost, based on availability.
- L** 30,000 Euros to cover all other expenses.

The organizers of the Workshop are the following: **Nadia Binggeli** (ICTP); **Simon Connell** (University of Johannesburg and AfLS); **Maya Kiskinova** (Elettra Sincrotrone); **Alessandro Migliori** (IAEA); **Edward Mitchell** (ESRF); **Sekazi Mtingwa** (LAAAMP); **Sandro Scandolo** (ICTP and LAAAMP); **Ian Swainson** (IAEA).

