LACA

Latin American Crystallographic Association

Provisional authorities: President: Dr. Márcia Fantini (Brazil) Vice president: Dr. Diego Lamas (Argentina) Secretary: Dr. Lauro Bucio (Mexico)

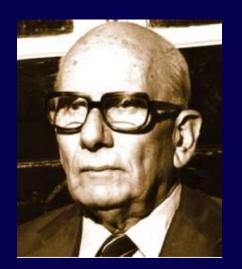
Contact: laca.cristalografia@gmail.com

One of the pioneers of Crystallography in South America: Prof. Ernesto Galloni

The history of Crystallography in Latin American probably started with the engineer and physicist Ernesto Galloni in the 1930s.

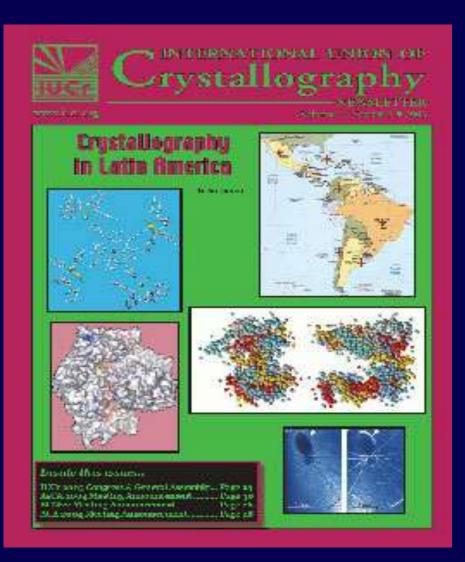
In the early 30s, he received a scholarship from the Spanish State Department, to study in Spain with an important crystallographer, Prof. Julio Palacios. Since then, the cooperation between Prof. Galloni and the Spanish crystallographers were very strong.

Between 1934 and 1940, Prof. Galloni organized the first group of Crystallography at the Faculty of Exact and Natural sciences of the University of Buenos Aires.



Prof. Ernesto E. Galloni 1906-1987

Crystallography in Latin America *IUCr Newsletter Volume 11 Issue 3 (2003)*



First Initiative of Ibero-American Cooperation

In 1959 an Advanced Course on Pure and Applied Crystallography was organized and financed by UNESCO in Santiago, Chile.



Santiago, Chile, September 21st, 1959.



The Spanish crystallographers Julio Palacios and Julio Garrido, were among the organizers.

Foundation of the Ibero-American Group of Crystallography

- ✓ In 1959, a Course on Advanced Crystallography in Chile was the starting point for the formation of the Ibero-American Group of Crystallography, that organized its first meeting in 1960 in Córdoba, Argentina and continued its activities until 1994.
- ✓ Prestigious crystallographers from Spain and Portugal took part of this initiative.



Julio Palacios 1891 - 1970



Julio Garrido 1911 - 1982



M. Font Altaba 1922 - 2004



J. Lima de Faria 1925-

I Latin American Meeting of Crystallography & IX Annual Meeting of the Argentinian Association of Crystallography Córdoba, Argentina, October 29th - November 1st 2013



Latin American Crystallographic Association - LACA

Foundation of the Latin-American Crystallographic Association

We, the undersigned, crystallographers of Latin America, in the presence of authorities from the Crystallographic Associations and Societies in Latin America (Argentina, Brazil and Mexico), a member of the Chilean National Committee of Crystallography, and crystallographers from Colombia, Cuba, Peru, Uruguay and Venezuela, present at the Latin American Assembly, included as activity in the program of the *I Reunión Latinoamericana de Cristalografía*, on October 31st 2013, in the city of Córdoba, Argentina, have decided to found the Latin-American Crystallographic Association and take all necessary steps to be recognized as a Regional Associate of the International Union of Crystallography (IUCr). When appropriate, the designation "Asociación Latinoamericana de Cristalografía" or "Associação Latinomericana de Cristalografía" or "Latin-American Crystallographic Association and take Association" could be used, or the acronym "LACA". The LACA will have the following goals:

- Contribute to the advancement and dissemination of crystallography in accordance with the aims of the IUCr.
- b. Promote Latin American cooperation in crystallography.
- c. Promote the teaching of crystallography at all levels in Latin America.
- d. Facilitate the mobility of students and researchers across the Latin American region and between this region and others.
- e. Promote the formation of national associations or committees of crystallography in all countries of Latin America.
- f. Promote the participation of Latin American crystallographers at all levels of the IUCr.

Córdoba, Argentina, October 31st, 2013, Foundation of the Latin American Crystallographic Association - LACA







XXIII IUCr Congress and General Assembly Montreal, Canada, August 5-12, 2014

LACA was accepted as regional associate of the IUCr



Montreal, August 7th, 2014

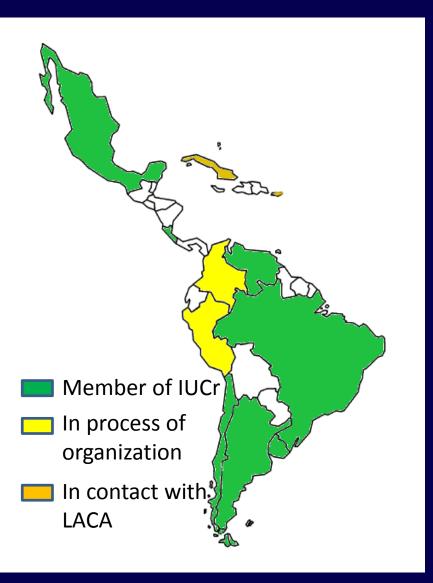
Main objectives of LACA

- ✓ To contribute to the advancement and the dissemination of Crystallography in accordance with the aims of the IUCr.
- ✓ To promote Latin American cooperation in Crystallography.
- \checkmark To promote the teaching of Crystallography in Latin America
- ✓ To facilitate the mobility of students and researchers across Latin America and between this region and others.
- ✓ To promote the formation of national associations or committees of Crystallography in all countries of Latin America.

The Brazilian National Synchrotron Laboratory (LNLS), in Campinas, Brazil, is the legal address of the LACA



Crystallography in Latin America



7 countries are members of the IUCr: Argentina, Brazil, Costa Rica, Chile, Mexico, Uruguay and Venezuela.

Colombia and Peru are in process of organization.

Cuba and Puerto Rico are participating in LACA.

The other countries do not have groups on Crystallography.



XXII Reunión de la ABCr I Reunión de la LACA



9 a 11 de setiembre de 2015

Invitamos a todos los cristalógrafos de los países latinoamericanos a participar en esta importante Reunión con la cual la LACA inicia su actuación como Asociación Regional de la Unión Internacional de Cristalografia.

Lugar de la Reunión

Instituto de Física, USP, São Paulo, Brasil Marcia C. A. Fantini (Brasil) Diego G. Lamas (Argentina) Mauricio Fuentealtaba (Chile) José Roberto Vega-Baudrit (Costa Rica) José Antonio Henao (Colombia) Graciela D. Delgado (Venezuela) Lauro Bucio Galindo (México) Alejandro Buschiazzo (Uruguay) Iris C.L. Torriani (Brasil) – Chair

Comisión Organizadora Internacional

<u>"Workshop" satélite:</u> "High Pressure Crystallography" 12-14 de set. 2015, Laboratorio Nacional de Luz de Sincrotrón – LNLS - Campinas, SP, Brasil

El programa científico completo (en elaboración) será divulgado en el segundo anuncio del encuentro.

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I Meeting of LACA & XXII Meeting of the Brazilian Association of Crystallography

São Paulo, Brazil, September 9-11th, 2015

Chair: Prof. Iris Torriani torriani@ifi.unicamp.br

Contact: Prof. Márcia Fantini laca.cristalografia@gmail.com mfantini@if.usp.br

IMPORTANT DATES

Registration: Will open May 20th at the ABCr homepage.

Abstract Submission: July 10th for participants who request financial aid August 10th for all participants.



The website of the meeting is under preparation and will soon be available at the LACA/ABCr website: <u>www.abcristalografia.org.br</u>

Satellite Events



2015 IUCr High-Pressure Workshop at the LNLS/CNPEM September 12th to 15th, 2015

The primary focus of the meeting will be recent scientific advances in high pressure techniques. Presentations will cover a variety of subjects in and related to high-pressure crystallography, including crystal structures, phase transitions and their kinetics, new materials synthesis, Earth and planetary science, soft and biological matter, physical and chemical properties, theory and computation, as well as technique developments for high-pressure studies at synchrotron, neutron and laboratory-based facilities.

OTHER SATELLITE ACTIVITIES PLANNED: September 7th to 8th, 2015

The organization of a workshop or school (to be confirmed) on powder diffraction is being considered under the auspices of The International Centre for Diffraction Data.

IYCr 2014 in Latin America



One summit meeting (Brazil) and four OpenLabs (Argentina, Uruguay, Colombia-Venezuela and Mexico) were organized in the frame of the IYCr.

Many educational and dissemination activities were also organized.

IYCr 2014 Latin American Summit Meeting in Campinas, Brazil

September 22nd to 24th, 2014 Brazilian Synchrotron Light Laboratory (LNLS) Campinas / São Paulo

http://lnls.cnpem.br/iycr2014-lasummit/ iycr2014-lasummit@lnls.br

Organização: Glaucius Oliva, Iris Torriani, Kleber Franchini, Antonio Jose Roque, Richard Garratt, Andre Ambrosio.

Super Apoio (ACO): Dora Marques, Luciana Oliveira, William Barbosa, Ildéria Santos, Gustavo Moreno, Livia Marques, Viviane Tella.

Submissão dos projetos: CVP

latin american summit meeting

biological crystallography and complementary methods











IUCr-UNESCO OpenLabs in Latin America

Agilent OpenLab in La Plata and Buenos Aires, Argentina Bruker OpenLab in Montevideo, Uruguay Rigaku OpenLab in Bucaramanga, Colombia (collaboration with Venezuela) PANanalytical OpenLab in Mexico City, Mexico





National Meetings of Crystallography





Advanced schools on different topics

- ✓ School on crystallization and polymorphism (San José, Costa Rica, January 2014)
- ✓ School on Macromolecular Crystallography (São Carlos, Brazil, April 2014)
- ✓ Course on Protein Crystallization (Concepción, Chile, May 2014)
- ✓ Course on single crystal diffraction for undergraduate students (Mérida, Venezuela, June-July 2014)
- ✓ Course on X-ray powder diffraction for oil industry (Mérida, Venezuela, October 2014)
- ✓ Short course on the PDF technique (Mar del Plata, Argentina, November 2014)
- ✓ School on synchrotron radiation techniques (Mar del Plata, Argentina, November 2014)

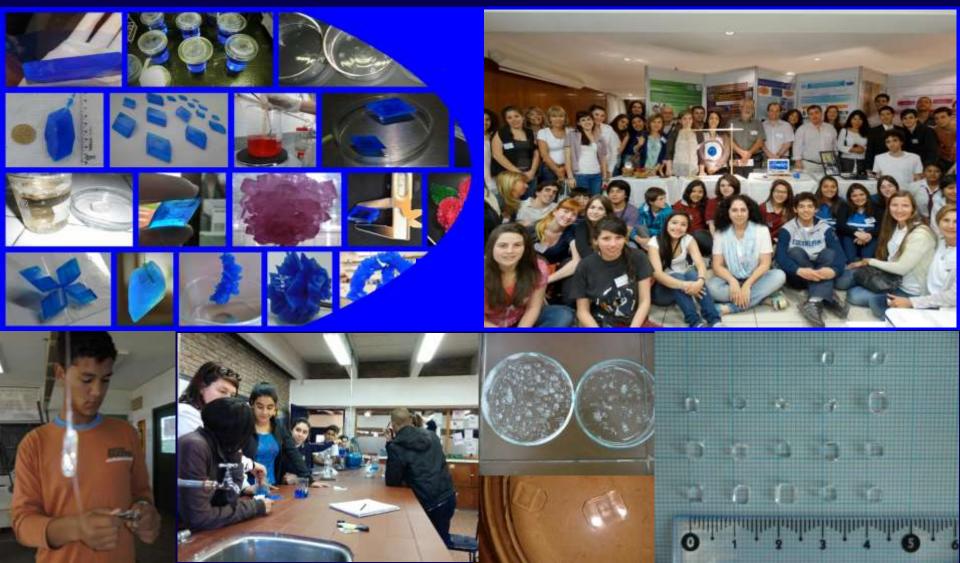








National crystal growing contests and short courses for teachers in Argentina and Uruguay



Other dissemination activities all over Latin America

✓ Exhibitions
✓ Fairs of science
✓ Art and photo contests
✓ Educational material
✓ Dissemination talks





el arte se encuentra con la ciencia"

Aimed at bringing together crystallography and art, we launched a National Art Contest inspired by Crystallography for artists of all ages.

A by-product of the promotion of this contest has been the development of a website and a Facebook page in which we posted, almost daily, examples of the strong relation between crystallography and art, not only in paintings but also in sculptures and architecture. Several radios and newspapers featured the Art Contest and published interviews to the organisers. The site scon gained visibility among the artists community, proving to be an excellent pathway for the diffusion of our discipline.

> Organised by Gabriela Aurelio, researcher and Florencia Malamut, PhD student from Centro Alómico Bankoche









Activities for 2015

- ✓ First meeting and general assembly of LACA in São Paulo, Brazil
- ✓ National meetings in Argentina, Brazil, Peru and Uruguay
- ✓ Advanced courses or schools in Argentina, Brazil, Colombia, Peru and Venezuela
- ✓ New crystal growing contest and short courses for teachers in Argentina and Uruguay

