

News from ALAFNA

Association of Latin American Nuclear Physics and Applications

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Inter American Network of Networks of QCD challenges

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Historical background of Latin American Collaboration in Nuclear Physics: common workshops, symposia

The first common initiative in Latin American Nuclear Physics:

1995 Lászlo Sajo-Bohus organizes in Caracas, Venezuela

First Latin American Workshop on Nuclear and Heavy Ion Physics

<https://link.springer.com/journal/12656/volumes-and-issues/2-3>

17 papers

13 Participants from foreign countries



**1997 II Latin American Workshop on Nuclear and Heavy Ion Physics
Caracas, Venezuela,**

<http://fisica.ciens.ucv.ve/~rmartin/2lawnphi/2lawnphi.html>

22 plenary speakers

- 1999 San Andres, Colombia** 60 participants, 20 countries
- 2001 Ciudad de Mexico, Mexico** 125 participants, 20 countries, 83 talks,
- 2003 Santos, Brazil** 230 participants, 13 countries
- 2005 Iguazu, Argentina** 155 participants, 15 countries
- 2007 Cuzco, Peru** 120 participants, 20 countries
- 2009 Santiago, Chile** 170 participants, 22 countries **Foundation of ALAFNA**
- 2011 Quito, Ecuador** 120 participants, 20 countries
- 2013 Montevideo, Uruguay** 130 participants, 26 countries
- 2015 Medellin, Colombia** 350 participants, 33 countries
- 2017 Habana, Cuba** 261 participants, 32 countries
- 2020 San Jose, Costa Rica**
- 2022 Ciudad de Mexico, Mexico**

Latin American Symposia on Nuclear Physics and Applications (LASNPA):

Scope: the dissemination of the major theoretical and experimental advances in the field of nuclear science and its applications in Latin America.

The main topics to be covered are:

- Nuclear Structure and Reactions,
- Nuclear and Particle Astrophysics,
- Cosmic Rays,
- Hadron Structure and Phases of Nuclear Matter,
- Tests of Fundamental Symmetries,
- Properties of Neutrinos,
- Nuclear Instrumentation and Facilities: Radiation Detectors and Sources,
- Applications in medical physics, biomedical imaging, art/archeology, energy, space and international security
- **Strongly increasing international participation.**

LASNPA Sponsorship:

CLAF (Centro Latino Americano de Fisica)

ICTP Trieste

IUPAP (since 2011)

Schools on Medical Physics preceding the Symposia:

2013 Montevideo

2015 Medellin

2017 Havana

Proceedings were published for every LASNPA (exception of year 2017). Links on website

Association of Latin American
Nuclear Physics and Applications
(ALAFNA)



<http://www.alafna.net/>

What is ALAFNA?

The “Association of Latin American Nuclear Physics and Applications” was formed in **Santiago, Chile on Dec. 19, 2009, during the VIII LASNPA**, by 15 representatives of Argentina, Brazil, Chile, Colombia, Mexico, Peru and Venezuela. They constituted the original Steering Committee.

In Spanish it is called “**Asociación Latino Americana de Física Nuclear y Aplicaciones**” ALAFNA

In Portuguese is called “**Associação Latino Americana de Física Nuclear e Aplicações**” ALAFNA

Chairs of ALAFNA: Andrés Kreiner (Argentina)
Alinka Lépine-Szily (Brazil)

ALAFNA Website

Since 2012: <http://www.alafna.net>

Objectives of ALAFNA

1. To strengthen existing ties among the Latin American communities doing nuclear research and applications and to foster collaborations and the promotion of activities. The official activity supported by ALAFNA is the LASNPA, Latin American Symposium on Nuclear Physics and Applications, that takes place every two years. Other activities are the organization of symposia, workshops, schools, university-institution cooperation and exchange programs for students, and the production of educational and outreach material.
Example: online seminars on Nuclear Physics for MSc level students, organized by Modesto Montoya from Peru
1. To educate the scientific community and the general public through the promotion of nuclear physics and the peaceful uses of nuclear technology.
2. To do periodic overall assessments of nuclear science in Latin America in the context of worldwide activities.
3. To represent the Latin American Nuclear Physics and Applications communities in other expert communities such as NuPECC, ANPhA, and other similar scientific international bodies.

Members of ALAFNA Steering Committee

(enlarged by inclusion of chairs/organizers of LASNPA)

Argentina: Andrés Kreiner, Alberto Pacheco, Norberto Scoccola, Alejandro Valda

Brazil: Alinka Lépine-Szily, Rubens Lichtenthäler F., Nilberto Medina, Roberto Ribas

Chile: Hugo Arellano

Colombia: Fernando Cristancho, Diego Torres, Stella Veloza

Costa Rica: Mario Cubero

Cuba: Ana Cabal

Ecuador: Edy Ayala

Mexico: Maria Ester Brandan, Roelof Bijker

Peru: Modesto Montoya

Uruguay: Raul Donangelo

Venezuela: Haydn Barros, Lászlo Sajo-Bohus

Ricardo Alarcon (USA/**Chile**), Carlos Bertulani (USA/**Brazil**),
Jorge Lopez (USA/**Mexico**), Carlos Granja (Czec Rep./**Ecuador**), Oscar Naviliat-Cuncic (France/**Uruguay**)

Connection of ALAFNA to nuclear science communities of Latin America

ALAFNA was founded by members of the low energy and applications of nuclear physics communities.

In its 10 years of existence new countries became members but limited progress has been achieved in enlarging its connections.

The high energy community is not much included in ALAFNA. In many Latin American countries they belong to Particles and Fields. But the forthcoming elections of new representants from participant countries gives a good opportunity for the promotion of ALAFNA in the local scientific communities.

Role of the Steering Committee:

- establishment of ALAFNA governance rules
- promotion of ALAFNA in the scientific community
- promotion of ALAFNA within governments of Latin America with interest in nuclear science and applications

At the foundation meeting:

Andrés Kreiner (Argentina) and Alinka Lépine-Szily were elected co-chairs of ALAFNA

ALAFNA SC has a presential meeting every two (2) years at the LASNPA conference.

By-laws of ALAFNA

In 2020 the by-laws of ALAFNA were approved by the members of the Steering Committee.

Some excerpts from the by-laws:

Membership

1. ALAFNA is a regional association of professionals. The members of ALAFNA must belong to organizations in nuclear science in Latin America. In exceptional situations, they can also be Latin American scientists working in a nuclear science organization in other countries.
3. The number of ALAFNA members from a member country is at most three. Each country chooses its own method of naming its representatives. Each representative will be member of ALAFNA during four years after a nomination. In exceptional cases, a country may propose to be represented by a Latin American nuclear scientist working in another country.

Governance

1. ALAFNA is governed by a Board composed of four members elected for one term by the members among the current membership by a simple majority. Elections take place every two years, which is called "a term". The election is electronic. No immediate reelection for the same or a different position in the Board is permitted.
2. The members of the Board are the Immediate-Past-Chair, the Chair, the Vice-Chair, and the Secretary.
7. The Chair, Vice-Chair, and Secretary will be responsible to promote the activities mentioned in the Objectives during their term as members of the Board.
9. ALAFNA Board meetings will be held at least once a year, with remote (electronic) presence of the Board members.

International recognition of ALAFNA

WG9-IUPAP

Since 2010 **ALAFNA is member of Working Group 9 (International Collaboration in Nuclear Physics) of IUPAP** (International Union of Pure and Applied Physics) and participates at its annual meetings **to report on Nuclear Physics activities in Latin America**

<http://iupap.org/working-groups/wg9-international-cooperation-in-nuclear-physics-icnp>

NuPECC

Since 2012 **ALAFNA is observer member** of NuPECC (Nuclear Physics European Collaboration Committee) and invited to its meetings

<http://www.nupecc.org/?display=staff/list>

IAEA

In 2020 **ALAFNA is invited** to a virtual Consultancy Meeting by IAEA.

EVT1806986 IAEA official invitation to Virtual Consultancy Meeting, 16 - 18 November 2020, IAEA Headquarters, Vienna-online.

Very fruitful meeting with good perspectives of future interaction between ALAFNA and IAEA.

Consultancy Meeting IAEA-Physics Section with ALAFNA (16-18/11/2020 online)

Realized with the participation of :

- members of the Physics Section staff,
- Marek Lewitowicz, as NuPECC chair,
- Milko Jaksic, as RBI director
- representatives from all ALAFNA member countries (11).

Detailed description of existing nuclear science activities:

- concerning possible collaborations with IAEA-Physics Section
- of ALAFNA
- of next LASNPA
- of each Latin American ALAFNA member country

Very fruitful meeting with good perspectives of future interaction between ALAFNA and IAEA.