

[LIP-ECO]

est. 2016

C. Espírito Santo for the LIP-ECO group, Jornadas do LIP, Évora, Feb 2018

Education

Communication

Outreach



Why does it matter?

- It's part of our social role
- Essential for the recognition of our work's relevance
- Helps attracting funds, partnerships, opportunities
- Helps attracting students and researchers

... it really matters!

Map of the ECO session

Part 1 - Reports

LIP-ECO1: Communication (C. Esp Santo)

LIP-ECO2: Outreach (P. Abreu)

LIP-ECO3: Advanced training (N. Leonardo)

Part 2 – Highlights

Internal comms survey (L. Coimbra)

Outreach in Minho (H. Carvalho)

Outreach in Coimbra (F. Neves)

Conferences in PT (C. Abreu, P. Bordalo, H. Santos)

LIP-ECO 1 Communication



"Organisational communication is mostly invisible; it acts, rather than talking about itself"

LIP's communication strategy document

"During the past year [communication and outreach at LIP] has reached a new level of professionalism by developing a broad communication strategy and establishing LIP-FCO"

LIP's international Advisory board May 2017 This document is the **roadmap** for LIP's communications activities and public profile.

- 1. Communication objectives
- 2. Mission, positioning, vision and values
- 3. Key Messages
- 4. Audiences
- 5. Channels
- 6. Creation of LIP brand

www.lip.pt/eco/documents/CommStrategy.pdf

Priority target audiences

- Our peers research centres, universities, funding agencies
- Undergraduate students in Physics and Engineering
- Internal communications
- School community

What have we been doing?

Promote LIP's work	Reports	FCT Evaluation	LIP Web	Social media	Press / Media	Support event comm	Close colab with computing group
	Internal Comm survey	Contacts with groups	Contacts with other institutions	SciCom conferenc es	SciCom training	Branding	Contents and materials

The team: Cat Esp Santo, Pedro Abreu, Ricardo Gonçalo, Carlos Manuel, Hugo Gomes, Leonor Coimbra, Aidan Kelly, Sofia Andringa, Conceição Abreu, Henrique Carvalho, Nuno Castro, Francisco Neves

What have we been doing?

SciCom conferences



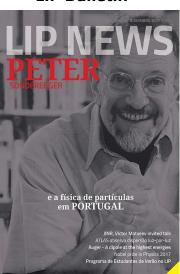
SciCom training



Reports & evaluations



LIP Bulletin



Press communications



Social media



LIP WebCarlos Manuel, Hugo Gomes

- Development of the new public website
- Development of the new intranet
- Event management system: handling and upgrade
- Development of a news reader (raspberry Pi)

New intranet ready for tests:

web.lip.pt/new

Next, improve existing tools, namely:

- Extend intranet contents
- Groups pages
- Personal pages
- Event management system

LIP Corporate image and Branding

In order to communicate a coherent image of the lab, we are developing a set of graphic rules and branding products

- Improve the way we present LIP
- Foster the impact of our communication
- Make our life easier





Signage for the new facilities

Now available on the intranet:

logos, templates, image set

(more to come soon)

Many challenges (first do better, then do more)





- Digital newsletter (cLIP)
- LIP science news: better collaboration with groups / C4
- Materials and contents: physics dossiers, videos, flyers, booklets, merchandising
- A role in project procurement and preparation

... Ideas are welcome & people needed!



Thanks!













Activities LIP-ECO[utreach] 2016-2017

Around the Exhibition

"Particles: from the Higgs boson to Dark Matter"

- ~3 weeks at Univ.Minho, Braga 17/2-9/3
- ~3 weeks at Univ.Coimbra 5-23/4
- ~3 weeks at Univ.Lisboa 2/5-25/5
 LIP 30th anniversary celebrated @ Rectory U.L.
- +6 Months @ Planetário de Lisboa, started on the European Researcher's Night 2016
 - > **6 Public Sessions** @ Planetário Antimatter/Fernando Barão, Quarks&Gluons/Helena Santos, Neutrinos/Sofia Andringa, Dark Matter/Isabel Lopes, Detectors/Alberto Blanco, Higgs boson/Patrícia Conde-Muíño
 - > Closing **Public Session** (**extra**) on the 3rd of May Particle and Astroparticle physics in the XXIst century/Mário Pimenta

Regular Activities

- Masterclasses
- Science in the Summer (Ciência Viva programme;
 1 in Coimbra [3 stds], 2 in Lisboa [14 stds])
- CERN Portuguese Language Teachers Programmes
- High-School Students Internship Programme@CERN
- European Researcher's Nights + Dark Matter session
- Outreach seminars at schools (32 B+HS, 3 Primary Sc.)
- +Internationalization (IPPOG, EPPCN, HST)

+SPF

Special Public Sessions

- Arthur McDonald @ The Knowledge Pavillion
 6 September 2016, full house (200+ people)
- Fabiola Gianotti @ Univ. Évora
 15 September 2017, full house (250+ people)

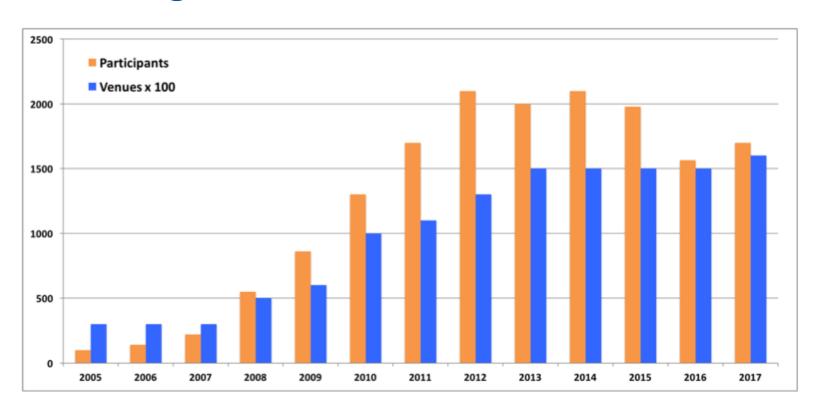
1. Masterclasses

IPPOG's International Masterclasses in Particle Physics – Hands on CERN



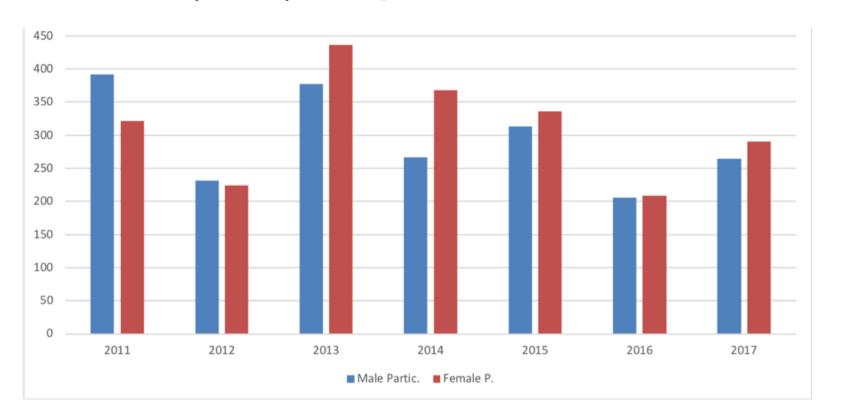
Masterclasses

Fun in a rigorous environment



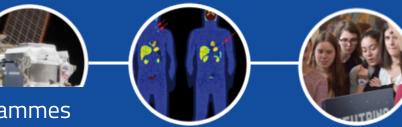
Masterclasses Gender assessment

A 1st trial (participants@IST)



2. CERN PTLTP

CERN's Portuguese Language Teachers Programmes Escola de Professores no CERN em Língua Portuguesa



10 Years of

CERN Teachers Programmes in Portuguese



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Total
Datas	10-14/9	1-5/9	30/8- 4/9	5-10/9	4-9/9	26-31/8	1-6/9	24-29/8	30/8- 4/9	28/8- 2/9	3-8/9	
Pt.Cand.	205	241	191	218	190	250	162	236	187	183	169	2236
Pt. New	205	169	78	130	98	165	57	121	96	63	40	1222
Pt. Part.	43	45	44	45	41	35	34	35	24	22	20	388
Br. Part.		1	11	20	20	30	31	30	22	20	20	205
Mz. Par			5	4	4	4		2	2	1		22
STP Pa				1	1	1	1	1	1	1		7
CV Part.				1	1	1		1	1			5
An. Par.					4							4
TL Part.					1	3	3					7
GB Part					1							1
Total	43	46	60	71	73	74	69	69	50	44	40	639

Teacher Programme Participants 1998 - 2017 (Total: 11414)



3. one night/day activities

European Researchers Nights
Dark Matter session...at the National S&T Week



European Researchers Nights (last Friday of Sept.) **2016 and 2017**

- @Braga, integrated in the celebrations prepared by Escola de Ciências da U.Minho
- @Lisboa, in the Lisbon Planetarium (Virtual Visits to CMS, + "Particle Fever"@2017)

Dark Matter session... celebrated in the national S&T week (Wed., Nov.22nd)

- @LIP-Lisboa, an evening dedicated to Dark Matter research, featuring Ph.D. students
 - Miguel Orcinha (Lisboa), Paulo Brás (Coimbra), Tiago Vale (Braga)
 - DM@AMS (annihilation), DM@LUX (interaction), DM@LHC (production)
 - Full house (more participants than chairs), very positive feedback

Internationalization





IPPOG – International Particle Physics Outreach Group EPPCN – European Particle Physics Communication Network HST – High-School Teachers forum (@ CERN)





- Turned into a formal Collaboration, with LIP a founding member
- Meets 2x year: Spring outside CERN, Autumn at CERN

Spring 2017 meeting in Lisboa - "at new premises" + March for Science 22nd April

EPPCN – European **P**article **P**hysics **C**ommunication **N**etwork

- Meets 2x year: one meeting at CERN, one outside CERN; reports to the CERN Council
- Improves communication of Particle Physics, maximizes exchange of information CERN-Member States

HST – High-**S**chool **T**eachers forum (@CERN)

- New forum started in 2016 at CERN, with a rep./Member State (1 virtual meet., 1 meet.@CERN)
- Focused on education matters, high-school students and teachers, activities for them
- Promotes the **HSSIP H**igh-**S**chool **S**tudents **I**nternship **P**rogramme for 5 countries in 2017 (PT+...)

5. SPF

Sociedade Portuguesa de Física



№ NO ENSINO

ESTIMULANDO O ESTUDO

Básico, Secundário, Superior e

Pós-graduado

FÍSICA APLICADA À ENGENHARIA A Spf é uma Sociedade Científica criada em Abril de 1974 e é Membro Honorário da Ordem de Instrução Pública.

ESTAMOS



→ NA INVESTIGAÇÃO

PREMIANDO OS MAIS JOVENS E ESTABELECENDO CONTATOS

Universidades, Institutos, Centros, Laboratórios, Empresas, Unidades de Saúde

NA SOCIEDADE

Acontecimentos, Sucessos, Debates, Polémicas, Políticas www.spf.pt



Publicamos regulamente uma newsletter

Vantagens para membros

- Ser parte de uma Comunidade de Físicos
- Ter acesso à Gazeta de Física e à EuroPhysics News
- Estar associado às Sociedades Internacionais: EPS, IUPAP, EFOMP e IOMP
- Receber notícias de congressos e eventos
- Participar nas Divisões e Grupos, na promoção e divulgação da Física em Portugal
- Participar no Fórum de discussão de tópicos de ensino
- Ter desconto em congressos, ações de formação, editoras e eventos culturais



Um Grande desafio

Em 2018 as Olimpíadas Internacionais de Física IPhO vão realizar-se em Lisboa com organização da SPF

Acompanhe!

http://ipho2018.pt/

- Vão decorrer de 21 a 29 de Julho com a participação de cerca de 1000 participantes (600 estudantes, 400 professores + observadores e guias) de 91 países
- Evento de grande dimensão e importância para Portugal





Planting a future

Thanks!

to all the people collaborating in all these activities!

...and for your attention!

Any questions?

You can find me at abreu@lip.pt







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