I am proud to present the Foundation’s annual report. The document that reflects the joint work of the board of trustees, the executive team, collaborators, members and other people linked to our network during 2019. This report reflects the combined effort of each individual.

This exercise in transparency should encourage all of us to assume the challenges that await us. It also reaffirms our team’s talent, channelling the concerns, ideas and proposals of the fire community, and, at the same time, allows me to confirm that we are prepared for the changes that we envisage.

The 2019 report reviews the variety of projects that drive the PCF to cover different demands and needs, and also reflects the complexity of facing the common challenge of changing the course of forest fires.

We manage many projects throughout the year, in areas such as prevention, awareness, extinction or research, among others. We do so, convinced that one of the greatest challenges is to lay a critical foundation that will allow us to generate social change, to learn to live with fire.

I would like to mention in particular that in 2019 we signed a partnership agreement with the International Association of Wildland Fire (IAWF) in Melbourne, Australia. For us it’s not a mere agreement. The IAWF has been a source of inspiration and learning that has served to develop part of our professional path. Working with the IAWF will enable us to further unite the fire community globally and accelerate many of the changes we seek and believe are necessary.

I would also like to make known that in 2019 we took advantage of the recognition of the PCF as an Ashoka Fellow by the ASHOKA Foundation, as we were selected from over 600 proposals at the national level which undertake extensive international scrutiny. Ashoka is the 5th non-profit organisation with the greatest impact on the world, and it has rewarded our approach to the problem posed by forest fires, recognising our ambition to seek a systemic impact that will serve as a definitive lever of change for a better future.

Finally, all that remains is for me to offer my sincerest thanks for all the ideas - big and small - from the fire community, working alongside and for them is the real reason we exist.

Oriol Vilalta
Director of the Pau Costa Foundation
**MISSION, VISION AND VALUES**

### VISION

LIVING WITH FIRE

### MISSION

THE PREVENTION OF LARGE FOREST FIRES, THROUGH THE KNOWLEDGE OF RESEARCHERS AND OPERATIONAL BODIES, IN ORDER TO MAKE ENVIRONMENTS AND SOCIETY MORE RESILIENT TO FIRE.

### VALUES

- COMMITMENT
- LEADERSHIP
- VERSATILITY
- EQUALITY
- TRANSCENDENCE

### ODS

<table>
<thead>
<tr>
<th>37 PROJECTS</th>
<th>We help meet the sustainable development goals defined by the United Nations for 2030</th>
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</thead>
<tbody>
<tr>
<td>6</td>
<td>QUALITY EDUCATION</td>
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<td>1</td>
<td>GENDER EQUALITY</td>
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<td>DIGNIFIED WORK AND ECONOMIC GROWTH</td>
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<td>INDUSTRY, INNOVATION AND INFRASTRUCTURE</td>
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<td>CITIES AND SUSTAINABLE COMMUNITIES</td>
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<td>ALLIANCES TO ACHIEVE OBJECTIVES</td>
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<td>4</td>
<td>CLIMATE ACTION</td>
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</tbody>
</table>
# The Year’s Activity

## Projects

- **5** Consultancy
- **9** European Projects
- **3** Own projects
- **6** Awareness Conferences
- **4** Conferences and workshops
- **10** Presence in int. workshops

## Participants

- **7,130**

## Knowledge Exchanges

- **1,365**
  - Course of use and management of technical fires: **20** Operatives
  - Phase III Training Plan: **35**
  - Webinars for Forest Defence Groups: **1,236**
  - Strategic Planning: **25**
  - TREX Andalucía: **49**

## Awareness and Outreach

- **5,349**
  - Get close to the forest fires: environmental education tools: **4189** Public
  - Talk at Rubió i Tuduri Institute: **60**
  - Course for primary teachers: **12**
  - Mefitu Workshops: **208**
  - Fire Prevention Day: **180**
  - Horta10 events: **700**

## Conferences and Workshops

- **307**
  - Landscape management as a prevention tool for major forest fires: **30** Operatives
  - Geo-Safe final conference: **35**
  - Grazing lands: **152** Public
  - Technical workshop for local authorities: **130** Administration
  - Wildfires: resilience through landscape architecture: **30** Academic world

## Social Action

- **19** Opportunities for members

## Geographic Distribution

- **14** Spain
- **18** Europe
- **8** Rest of the world

**6** Network
And its impact, in figures

307

1.365

5.349

19
Knowledge exchanges

The Foundation promotes exchanges between national and international entities to ensure that forest fire knowledge is wide-reaching, through:

- Skills-based fire training and career development
- Creation of the Competence-based Training Catalogue, structuring a career plan focused on improving forest fire knowledge in firefighting services.
- Knowledge exchanges between countries with accredited trainers from different organisations. We work with fire extinction organisations and services from all over the world to share our knowledge and experiences in forest fires.
- Ability to deploy accredited trainers anywhere in the world to assist in staff career development.
Exchange with South Africa

Exchange of experiences and operations between members of the Spanish and South African extinction corps. A team of 5 were hosted by the Nature Conservation Corporation (NCC) in Cape Town, the company responsible for fire management and prescribed burning in the Cape Town region. The team lived with various NCC task forces dealing with forest fire emergencies and sharing lessons learned.

**PROMOTING ENTITY:** Nature Conservation Corporation (ZA)

**ORGANISATIONS/PROFESSIONALS WHO HAVE PARTICIPATED:** Mario Saladie, Raúl Colomé, Lluís Martí, Lluís Justamante, Nico Boliart (GRAF - Bombers de la Generalitat de Catalunya [Group of Support to Forest Actions of the Firefighters of Catalonia])

Course on the use and handling of technical fire by the Lancashire Fire & Rescue Service

New edition of the technical fire handling and use course that has been running since 2015 for British emergency services. This was carried out in collaboration with Mafra Civil Protection in Portugal and thanks to the support of PCF members in Portugal, is a key element in the development of this course.

**PROMOTING ENTITY:** Lancashire Fire & Rescue Service (UK)

**ORGANISATIONS/PROFESSIONALS WHO HAVE PARTICIPATED:** Civil Protection of Mafra (PT), Guillem Pallejà (GRAF of the Firefighters of Catalonia) (ES).

**PCF MEMBERS WHO HAVE Participated:** Héctor Alfaro, Andreu Palacios (ES)

Phase III of the training plan of the Federation of Voluntary Firemen of the Province of Córdoba

Course of Analysis and Meteorology for senior managers. In this phase as in previous ones, activities have been carried out thanks to the active participation of PCF Members. In this case, the collaboration was organised by staff from Andalusia, Catalonia and Valencia, who expressed their interest through the open call to the Members of the Foundation.

**PROMOTING ENTITY:** Federation of Voluntary Firemen of the province of Córdoba (AR)

**ORGANISATIONS/PROFESSIONALS WHO HAVE PARTICIPATED:** Miguel Ángel Botella (VAERSA) (ES)

**PCF MEMBERS WHO HAVE Participated:** Felipe Borderas, Emilí Dalmau (ES)
Training in strategic planning for the prevention of forest fires

Specialised training for Corsican operatives. Coordinated by Sébastien Lahaye and attended by two members of GRAF - Firefighters of Catalonia.

Webinars for Forest Defence Groups (FDG)

In accordance with its collaboration agreement, the PCF offers technical webinars on forest fires to FDG members in Catalonia. On this occasion the topics discussed were:

- The role of the European institutions in extinguishing forest fires, by Pepe Almodóvar
- Propagation hubs as a foundation for the prevention of large fires in the 21st century, by Raúl Quílez
- The prevention of forest fires, by Josep Miquel de Pablo
- Forest fire investigation by David Roig
- OruxMaps, by a representative of the same FDG

TREX Andalucía 2019

Training Exchange (TREX) organised by the Andalusian Government, in which the Foundation was in charge of dissemination tasks, registration management, design and production of communication material, and training support.
The Foundation participates in Research, Development and Innovation projects to raise the bar of excellence in scientific research and new advances in the field of forest fires and to weave links between researchers, emergency services and society.

We collaborate on projects of scientific excellence with universities and research centres in Europe, North America and Australia.

We prepare, coordinate and participate in international projects. We look for opportunities to promote the inclusion of the fire community in R+D+i projects.

We promote innovation and development in the field of emergencies. We participate in consortiums with companies and development centres to provide innovative technology tools for emergency management.

10 Projects active in 2019 across 5 European programs (H2020, INTERREG, DGECO, ERASMUS+, COST ACTION)

Partners from Europe, North America and Oceania
**HEIMDALL**

The project addresses the challenge of providing integrated tools for emergency planning and management, including the definition and sharing of multidisciplinary scenarios, and addressing the needs of first responders (fire-fighting units, police departments, emergency medical services, civil protection and command and control units) and relevant stakeholders in terms of interoperability, inter-organisational coordination and information exchange. The Foundation plays a coordinating role for the end users.

**FIRE-IN**

The main objective of FIRE-IN is to improve the national and European capacity of firefighting services by promoting innovation in this field and by providing pioneering solutions that significantly increase the efficiency of the EU emergency services to improve the safety of its citizens. The overall result of the project will be a wide-reaching network of professionals and research on emergencies.

**GEO-SAFE**

GEO-SAFE aims to create a network for the exchange of knowledge, ideas and experiences between Europe and Australia, thus boosting knowledge on forest fires to deal with these emergencies efficiently. Specifically, GEO-SAFE focuses on the development of decision support tools integrating resource optimisation during the response phase.

**PYROLIFE**

This Innovative Training Network funds 15 PhD students to conduct interdisciplinary research on forest fires and create a new generation of experts worldwide. The Foundation will host one of these doctoral students for 3 years, while they are pursuing their doctorate at Wageningen University.

**OPEN2PRESERVE**

The main objective of the OPEN2PRESERVE project is to combine current interdisciplinary scientific knowledge with technology and practice, in order to implement and enhance combined techniques that guarantee the preservation of ecosystem services linked to open spaces of high natural value. The project proposes the development of different regional pilot experiences, based on the combination of guided herbivory and initial techniques of fuel reduction through controlled burns.
The main objective of this project is to develop a behavioural culture and increase the knowledge and skills of primary and secondary school children to react to natural and man-made emergencies, responding to a changing environment in Europe, based on modern approaches and social constructivism through the use of ICT tools.

A project that prepares a new generation of shepherds in the management of extensive herds combined with fire prevention. This includes the collaboration of partners from several European countries such as universities, shepherding schools, associations and public administration. The Foundation is the coordinator of the project.

COST Action Project enables us to provide many members of our community with access to courses and conferences. The Foundation does not receive financial support.

The main objective of the WUIVIEW project is to design, configure, test and operate a virtual desktop service for performance-based analysis of fire environments around buildings at the urban-forestry interface. In line with the objectives of the European Union’s Civil Protection Mechanism, the WUIVIEW action will develop an innovative risk management tool that will help communities at the urban-forest interface adapt to coping with the new generation of forest fires that have already emerged due to climate change.

From mid-May 2018 until March 2019, the Foundation was contracted by the Ministry of Home Affairs of Catalonia to provide support in the development of all the activities of the Interreg Poctefa COOPEREM project, of which the department is the Lead Partner. The tasks carried out included project management, communication, support to the mapping service and operational support in emergency management.
The Foundation promotes landscape resilience through the analysis of the territory and proposes specific management actions in key points.

**THERE ARE SEVERAL ACTIVITIES:**

- Implementation of technical projects including fire risk in spatial planning
- Implementation of fuel management projects
- Territorial and critical infrastructure vulnerability studies on forest fires.
- Rural economy revaluation projects with medium and long-term impact.
- Prioritisation of some areas to protect against forest fires through participatory processes with neighbours and agents of the territory.
- Identification and characterisation of Strategic Management Points for the prevention of forest fires.
Ramats de Foc (Fire Flocks)

The prescribed silvopastoral project RAMATS DE FOC deserves a special mention. Once the funding from the Carasso Foundation ends in December 2019 and since the project aims to become self-sustainable in the future, the Foundation intends to continue supporting it at a technical level and search for other sources of funding.

The evolution of the project is very promising. In the last year we have more than doubled the number of establishments that sell Ramats de Foc products. We already have 17 shepherds, and the participating agents have been consolidated. Economic viability is becoming increasingly clear. In addition, many municipalities have been interested in incorporating herds for the maintenance and management of their protection zones and municipal green areas and contact us as a reference project.

We are grateful to the PCF Members who live in the area of this pilot program for helping us focus the project and find solutions.
VISION
A better and sustainable balance between fire, nature and society, where knowledge is connected and shared to influence public policies.

MISSION
To build a community of researchers, fire practitioners and society that creates, shares and influences for effective crisis management, creation of fire-resilient landscapes and have better prepared society for wildfire risks.

PCF’S GOALS
- Support an innovative community of international experts and researchers
- Propose country-level initiatives helping to address landscape management and fire risk reduction
- Become a worldwide source reference for wildfire management
- Share knowledge about best practices, experiences and potential solutions
- Provide support and leadership to different national and international organisations

WORLDWIDE NETWORK
- 57 First responder organisations
- 112 Technical partnerships
- 142 Research & Academic
- 16 Public administration
- 15 Technical research
- 16 Companies & SMEs
- 26 NGO

OUTREACH AND PARTICIPATION
- Social action
- Conferences and seminars
- Awareness and dissemination
- Resilient landscapes
- I+D+i
- Exchanges of knowledge
PCF PROVIDES

TRUST AND LEADERSHIP

ENGAGEMENT

REPRESENTATION

TARGET-ORIENTED COMMUNICATION

3000+

SENSIBILIZED STUDENTS

500+

ORGANIZED EVENTS

300+

PCF MEMBERS

4000000+

VISITS IN THE MEDIA

7+

AWARDS AND HONOURS

50+

PROJECTS EXECUTED

MEDIA IMPACT

AWARDS AND ACKNOWLEDGMENTS

NASA World Wind Europe Challenge 2013

Wildland Fire Safety Award 2015

“Social Entrepreneur Ashoka 2018”

* Data corresponding to the period of 2011-2019
**Study on fire ecology** in the Montseny biosphere reserve area for the Autonomous University of Barcelona.

Development of a participatory forest fire prevention plan in the Montseny Biosphere Reserve as a strategy to mitigate climate change and adapt to its effects on fires. The Plan had the support of experts from the Firefighters of Catalonia, technicians from the department of agriculture and the Montseny natural park, as well as the association of owners and citizens in general.

**Promoting Entity:** Autonomous University of Barcelona (ES)

**Organizations/Professionals that have participated:** Ministry of Agriculture, Livestock, Fisheries and Food, Firefighters of Catalonia, Association of Owners in Montseny Park (ES)

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**Study and delimitation of the PEGs and AFGs for the prevention of fires in different areas of the province of Barcelona.**

Study and delimitation of the Strategic Management Points (PEGs) and Areas of Management Promotion (AFGs) for fire prevention in the areas of Montnegre i Corredor, Penedès-Garraf and Anoia-Rubió.

**Promoting Entity:** Barcelona Provincial Council

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**Prevention plans for municipalities in the province of Alicante and tasks of associated awareness. Phase I**

Drafting of forest fire protection plans in 4 areas of the municipality of Xixona, Alicante. For this, we rely on the support of the company Medi XXI, active collaborators of PCF with a long history in this type of work.

**Promoting Entity:** Ashoka Foundation (ES)

**Organizations/Professionals that have participated:** Xixona City Council, Medi XXI (ES)

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**Fire management plan for protected areas of peatlands (Cuilcagh Mountain and Cuilcagh Anierin-Uplands SPA)**

Data collection, drafting of the forest fire prevention plan and work with the territory’s actors to get them involved. An Irish company has been engaged to carry out the fieldwork.

**Promoting Entity:** Ulster Wildlife (UK)

**Organizations/Professionals that have participated:** Alexander Held (European Forest Institute) (EU), Steve Gibson (Northumberland Fire & Rescue Service), Matthew Bushby (Mourne Heritage Trust) (UK).
ACTIVITIES CARRIED OUT
Awareness and outreach

The Foundation transmits knowledge of forest fires through art and communication actions so that they reach the entire population and all generations in the best way possible.

We develop, among other activities, environmental education workshops on forest fires in schools, courses aimed at primary school teachers, specialised training, resources to facilitate the dissemination (documentaries, animation series, stories) and even art exhibitions.

268 PUPILS ATTEND OUR ENVIRONMENTAL EDUCATION WORKSHOPS FOR SCHOOLCHILDREN OR ADULTS.

4,189 VIEWS/ DOWNLOADS OF THE TOOLS OF THE PROJECT GETTING FAMILIAR WITH FOREST FIRES

272 NEW WORKS ON LOAN TO THE FOUNDATION’S ART FUND. IN TOTAL, THE FUND HAS 1,243 WORKS.
Getting familiar with forest fires

As a result of subsidies from the Spanish Foundation for Science and Technology (FECYT) and the Obra Social La Caixa Foundation, the project Acércate a los Incendios Forestales (Getting familiar with forest fires) was created, a collection of awareness-raising and dissemination tools designed for all ages. It specifically developed the following products:

- 4 chapters of cartoons ‘Discovering the fire with MeFiTu and Jara’ aimed at children, available in Catalan, Spanish and English, and with Spanish and international sign language.
- Virtual exhibition Fire vs. Fire, with works from the art fund Art&Fire of the Foundation.
- In 2020 the creation of another 4 chapters of the cartoon series will be completed, thanks to an agreement with Red Eléctrica de España.

Promoting Entities: Spanish Foundation for Science and Technology, La Caixa Banking Foundation (ES)
Organisations/Professionals who have participated: Miriam Arenas (Universitat Oberta de Catalunya), Josep Serra Tarragón (ES)

Talks at the Rubió i Tudurí Institute from Barcelona

This institute, formerly the School of Gardening in Barcelona, offers an advanced level training cycle in Forest and Natural Management and the Foundation was asked to give a talk on forest fire prevention in protected areas or priority protection perimeters. It was used as an opportunity for Members.

Promoting Entity: Rubió i Tudurí Institute (ES)
PCF Members who have participated: Ricard Baqués (ES)

Talk for the Circle of Environmental Volunteers of the Natural parks of the Barcelona Provincial Council

A talk directed at the volunteers of the Circle of Environmental Volunteers of the Natural parks of the Barcelona Provincial Council, with the aim of presenting the current situation of the fires at a global level and to generate debate of the possible scenarios in the province of Barcelona.

Promoting Entity: Barcelona Provincial Council (ES)
Prevention Day in Begur

Conference organised jointly with the Girona Provincial Council and aimed at disseminating information on fire prevention in the urbanisations of the municipality of Begur. This was done through door-to-door visits by members of the four agencies that have responsibilities in this area (Fire Department, FDG, Rural Agents and Civil Protection). This action is part of the events of Preparedness Day, a program promoted by the National Fire Protection Association of the United States, whose international director attended the conference.

Environmental education course for teachers and several MeFiTu workshops in the province of Tarragona

As a result of a grant from the Tarragona Provincial Council, an environmental education course was developed for primary school teachers. Upon completion, the course was uploaded to the Foundation's Moodle platform. The MeFiTu environmental education workshops were held during the months of October and November in several schools in the province of Tarragona.

MeFiTu workshop at FES festival: Festival of Education for Sustainability

Environmental education workshop MeFiTu in the framework of the Festival of education for sustainability that takes place every year at the Museum of Rural Life in l’Espluga de Francoli, in the province of Tarragona.

Horta10

Support for activities to commemorate the 10th anniversary of the Horta de Sant Joan fire in which 5 firemen died: The art exhibition Memòries Incandescents, with works by the artist Pep Serra, has appeared in several Catalan towns: Mollerussa, Pobla de Segur, Tremp, Horta de Sant Joan, Arnes, Barcelona, Alcanar and Lleida. Other activities included a mountain bike race, a beach volleyball championship, a bush walk and a race through the fire zone.
The Foundation organises both face-to-face and virtual events so that the forest fire community can be informed of national and international developments. And, increasingly, we are expanding the target audience to reach more sectors of society.

We encourage the organisation of specialised national and international events for the sharing of operational, scientific and social knowledge, and propose our network of experts to collaborate in events.

**Final Geo-safe conference: addressing the challenges of bushfire management**

Final congress of the Geo-Safe project that brought together researchers and operatives from Australia and Europe to search for innovative solutions in forest fire management.

**Promoting entity:** GEO-SAFE Project

- **307 participants**
- **4 conferences**
- **3 different countries**
- **Variety of assistants:** operational bodies, academia, administration, primary sector and society in general
**Landscape management workshops as a tool for the prevention of large forest fires**

Workshops that addressed the main actors of the territory (planners, tourism, local businesses, etc.) and to the general public of the Olmi Capella area, in the French island of Corsica, co-organised with the local City Council and the USbirru Cultural Association.

**PROMOTING ENTITY:** U Sbirru Cultural Association

**ORGANISATIONS/PROFESSIONALS THAT HAVE PARTICIPATED:** Olmi Capella City Council

**PCF MEMBERS WHO HAVE PARTICIPATED:** Sébastien Lahaye (FR)

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**Territorios Pastoreados 4 (Grazing Territories 4)**

Conferences on grazing, extensive livestock farming, product marketing and forest fire prevention. It is worth mentioning the opening speech by Mr. Josep Roca with a keynote lecture on wines, territory and fires. Josep Roca is one of the managers of the Celler de Can Roca, considered the best restaurant in the world in 2013.

**PROMOTING ENTITIES:** Entretantos Foundation, Pau Costa Foundation

**ORGANISATIONS/PROFESSIONALS WHO HAVE PARTICIPATED:** Josep Roca (El Celler de Can Roca), Spanish Platform for Extensive Livestock Systems and Pastoralism, Rurbans, Escola de Pastors de Catalunya, Gremi de Carnissers i Xarcuters Artesans de les co-marques gironines, Interovic, Ganaderas en Red, Ministry of Agriculture, Livestock, Fisheries and Food, The Daniel y Nina Carasso Foundation (ES)

**PCF MEMBERS WHO HAVE PARTICIPATED:** Several PCF Members

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**Technical workshop: challenges for the prevention of forest fires at a municipal level**

A workshop aimed at municipal workers, elected officials, county councils and entities in the province of Girona. Organised jointly with the Girona Provincial Council, there were presentations on forest management and climate change, implementation of municipal action plans, self-protection measures and various experiences.

**PROMOTING ENTITY:** Girona Provincial Council

**ORGANISATIONS/PROFESSIONALS WHO HAVE PARTICIPATED:** Espolla City Council, Capmany City Council, Torrelodones City Council, Civil defence, Ranger Corps, Firefighters of Catalonia, Medi XXI (ES), National Fire Protection Association (US)

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**Wildfirescapes workshop: Resilience through landscape architecture**

International Landscape Architecture workshop on planning and design to reduce the vulnerability of the landscape and make it more resilient to forest fires.

**PROMOTING ENTITY:** ETSAB MBLandArch - UPC

**ORGANISATIONS/PROFESSIONALS WHO HAVE PARTICIPATED:** Barcelona Provincial Council (ES), AFE (US)

**PCF MEMBERS WHO HAVE PARTICIPATED:** Pepa Morán, Rut Domènech, Jordi Castellvi (ES)
The Foundation increases the visibility of the fire community by direct participation of Foundation staff plus its 200+ members in local, national and international events.

Throughout 2019, we have participated in various events with the intention of:

- giving visibility to the Foundation’s mission and vision
- sharing our knowledge on forest fires at local, national and international levels.
- circulating the forest fire community's messages in media and social networks.
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<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tr>
<td>Facing Forest Fires: workshop: towards a new paradigm for Europe and</td>
<td>11th February</td>
<td>Barcelona (ES)</td>
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<td>the Mediterranean, 11th of February, Barcelona (ES)</td>
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<td>Security Union workshops: Europe that protects, 14th of February,</td>
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<td>Madrid (ES)</td>
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<td>Women in the fire department workshop: gender perspective, 5th of</td>
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<td>March, Barcelona (ES)</td>
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<td>2nd International Congress of Prevention and Emergency, 13th of</td>
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<td>March, Malaga (ES)</td>
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<td>Community of Users: 25th-29th of March, Brussels (BE)</td>
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<td>6th International Fire Behavior &amp; Fuels Conference, 29th of April</td>
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<td>to 3rd of May, Sydney (AU) and Marseille (FR)</td>
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<td>Annual Congress of the Federation of the European Union Fire Officers</td>
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<td>Associations, paradigmas da proteção civil, 19th of May, Porto (PT)</td>
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<td>Summer Course of the Universidad Cantabria about Rural development,</td>
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<td>management forest and fire, Challenges and experiences, 19th of June,</td>
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<td>Santander (ES)</td>
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<td>NFPA Conference &amp; Expo 2019, 17th-20th of June, San Antonio (US)</td>
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<td>Workshop - European HUB on Forest Fires, 25th June, Rotterdam (NL)</td>
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<td>Forest Fires in the Alps, 27th of June, Vienna (AT)</td>
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<td>Civil Protection Workshop, 3rd of July, (DZ)</td>
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<td>Fira Santa Tecla 14th of July, Escornalbou (ES)</td>
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<td>Workshop Pro-active management of forest to combat climate change</td>
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<td>driven risks: policies and measures for increasing forest resilience</td>
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<td>and climate change adaptation, 3rd-4th of September, Istanbul (TK)</td>
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<td>European Day of Sustainable Communities, 21st of September,</td>
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<td>Valdepiélagos (ES)</td>
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<td>Technical Workshop on Forestry Fires in Green Spain – Return of</td>
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<td>Operational Experiences BETEXOP, 8th of October, Santander (ES)</td>
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<td>Mediterranean Security Event, 29th-31st of October, Crete (GR)</td>
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<td>Workshop Wildfirescapes, Resilience through landscape architecture,</td>
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<td>3rd-8th November, Barcelona (ES)</td>
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<td>WWF Wildfire Conference 2019, 20th-21st of November, Cardiff (UK)</td>
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<td>SURE Workshop, 22nd of November, Cardiff (UK)</td>
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<td>Forest fire challenges in the EU context seminar, 22nd of November,</td>
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<td>Hobart (AU)</td>
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<td>Security Research Event, 6th-7th of November, Helsinki (FI)</td>
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<tr>
<td>Simulation Workshop in the European Hub for Civil Protection and</td>
<td></td>
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<tr>
<td>Crisis Management, 3rd-4th of December, Rotterdam (NL)</td>
<td></td>
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<tr>
<td>VOST Portugal Day 7th of December, Lisbon (PT)</td>
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</tr>
<tr>
<td>23rd International Congress on Modelling and Simulation (MODSIM2019),</td>
<td></td>
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<tr>
<td>1st-6th December, Canberra (AU)</td>
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</tbody>
</table>
Agreement with the International Association of Wildland Fire

In November 2019, in Melbourne, Australia, a collaboration agreement was signed with the International Association of Wildland Fire, an important milestone for the Foundation because of all the benefits it can bring to the fire community and which once again demonstrates the commitment of different organisations to work together. The PCF values the request of the IAWF to sign a common agreement as a great step for our organisation, since the IAWF has always been a reference for all of us and we feel immensely proud of this agreement.

Agreement with Institut d’Estudis Mèdics

In March 2019, an agreement was signed to promote collaboration between the PCF and this academic institution in training, research and knowledge exchange in the field of emergencies in general and forest fires in particular.

Lessons on fire

PCF continues to drive knowledge sharing virtually through the Lessons On Fire platform. Throughout 2019, resources have been allocated to increase the content of the same.

Questionnaire to improve the implementation of R&D&I and help to better define the strategy to face the new generation of forest fires.

In February, we launched a survey to learn about the needs and opportunities that exist between the operational world and research. The results obtained identify the most important lines where there are more collaboration needs. The data obtained is considered to be of high value for research, the results of the survey have been presented at several international conferences and a publication is being prepared to disseminate them.
Social Action is a fundamental pillar of the Foundation that allows it to establish links with entities and people in countries that need to improve their forest fire management capacity, for example, through inter-mediation for the donation of operational material. In addition, we work to provide professional growth opportunities for the members of the Foundation through exchanges, attendance at events and training as representatives of the Foundation in national and international forums, among others.

**Gender and fire**

This working group is formed by requests from various professionals in the world of forest fires to analyse the situation of women in the sector and propose good practices and improvements for the future.

**PROMOTING ENTITY:** Pau Costa Foundation

**ORGANISATIONS/PROFESSIONALS WHO HAVE PARTICIPATED:** Mariajo Gallego, Miriam Arenas (Universitat Oberta de Catalunya), Clara Latorre (Firefighters of Barcelona), Inés Suárez (Ser Bombera) (ES)

**PCF MEMBERS WHO HAVE PARTICIPATED:** Isabel Vázquez, María Llanos García (ES)
# Opportunities Offered to PCF Members in 2019

The Foundation offers professional growth opportunities to its entire network of Members. These are the details of the 19 opportunities we have offered throughout 2019:

<table>
<thead>
<tr>
<th>Title</th>
<th>Place</th>
<th>Description</th>
<th>Date</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talk on the prevention of fire</td>
<td>Spain</td>
<td>Two 2h talks within the Advanced Vocational Training Module of 'Forest and Natural Environment Management', taught by the Instituto Municipal Rubió i Tudurí de Barcelona</td>
<td>1/04/2019</td>
<td>Ricard Baqués</td>
</tr>
<tr>
<td>Exchange in South Africa</td>
<td>South Africa</td>
<td>An exchange in South Africa, Cape Town, for 10 days, in collaboration with NCC Environmental Services</td>
<td>4-14/02/2019</td>
<td>Desierta</td>
</tr>
<tr>
<td>Burn Instructor prescribed</td>
<td>Portugal</td>
<td>Possibility to act as an instructor on prescribed burns for a UK emergencies</td>
<td>4-9/03/2019</td>
<td>Héctor Alfaro, Andreu Palacios</td>
</tr>
<tr>
<td>'Women in the fire department: a gender perspective' workshop</td>
<td>Spain</td>
<td>Possibility of acting as a speaker at a round table discussion on from issues such as women's health and safety in the world of extinction to their integration into the bodies of extinction</td>
<td>5/03/2019</td>
<td>Anna Tortosa</td>
</tr>
<tr>
<td>Pan-European workshop on Biotic Risks</td>
<td>Czech Republic</td>
<td>Attendance to a workshop on biotic risks, organised by the European Forest Risk Facility</td>
<td>2-3/04/2019</td>
<td>Void</td>
</tr>
<tr>
<td>Congress seats International APTB</td>
<td>Spain</td>
<td>4 places available to attend the International Congress APTB 2019 in Malaga</td>
<td>13/03/2019</td>
<td>Void</td>
</tr>
<tr>
<td>Participation in a FireShepherds workshop project</td>
<td>Germany</td>
<td>Occasional participation in a workshop and visit of experiences within the framework of the project FireShepherds on Silvopastoralism and Fire Management</td>
<td>27-29/05/2019</td>
<td>Rut Domènech</td>
</tr>
<tr>
<td>Workshop: Improving Resilience to Emergencies through Advanced Cyber Technologies</td>
<td>Italy</td>
<td>Participation in this workshop in which the participation of end users is sought (operational controls) in the development of the products being produced in the I-REACT project framework</td>
<td>9-10/05/2019</td>
<td>Fabio Silva</td>
</tr>
<tr>
<td>CoU plenary meeting</td>
<td>Spain</td>
<td>Invitation to the 3rd plenary meeting of the Security User Community in Spain</td>
<td>14/05/2019</td>
<td>Void</td>
</tr>
<tr>
<td>Talk for environmental volunteers</td>
<td>Spain</td>
<td>A talk on the Foundation and on the main tasks of management and prevention of forest fires, aimed at environmental volunteers from the Natural Parks of the Barcelona Provincial Council</td>
<td>12/06/2019</td>
<td>Void</td>
</tr>
<tr>
<td>Exchange with the Unmanned Aircraft System (EUA)</td>
<td>EUA</td>
<td>Participation in an international exchange to gather information on European regulations related to the training and operational profiles of the Unmanned Aircraft System</td>
<td>N/A</td>
<td>Void</td>
</tr>
<tr>
<td>Pilot project exercise beAWARE</td>
<td>Spain</td>
<td>Possibility to observe the operation of the beAWARE system during a simulation of forest fire</td>
<td>14/11/2019</td>
<td>Ferran Dalmau</td>
</tr>
<tr>
<td>External Advisory Board of the project INSTANT</td>
<td>Various</td>
<td>Participation of an operational expert in emergency management (woman) in the workshops and meetings of the INSTANT R+D+i project, as part of its EAB</td>
<td>2020-2023</td>
<td>Ana Isabel González Ochoa</td>
</tr>
<tr>
<td>We help you publish a scientific article</td>
<td>Online</td>
<td>Possibility to publish a scientific article in Wildfire Magazine and count on the support of the PCF if translation is required</td>
<td>SEPTEMBER 2019</td>
<td>Raúl Quílez</td>
</tr>
<tr>
<td>Final conference of the ANYWHERE project</td>
<td>Belgium</td>
<td>Invitation to participate in the final conference of the ANYWHERE project, including a ‘hands-on demonstration activity’ and a final workshop</td>
<td></td>
<td>Fabio Silva, Giuseppe Scala</td>
</tr>
<tr>
<td>Workshop on Incident Command System</td>
<td>Germany</td>
<td>Invitation for an operational expert in large forest fire management to to present technical analysis methods and participate in the resolution of scenarios with other European emergency managers</td>
<td>14-18/10/2019</td>
<td>Unable to participate due to causes external to the Foundation</td>
</tr>
<tr>
<td>Participation in the Final Driver+ project demo</td>
<td>Poland and the Netherlands</td>
<td>Possibility to participate as an observer in the Final Demo of the Drive+ project</td>
<td>26-28/11/2019</td>
<td>Fabio Silva</td>
</tr>
<tr>
<td>Participation in a FireShepherds ‘Wildfire Risk Analysis’ simulation workshop</td>
<td>The Netherlands</td>
<td>Possibility to participate in the simulation workshop ‘Wildfire Risk Analysis’ in the framework of the preparatory action “Network of European Hubs for Civil Protection and Crisis Management”</td>
<td>3-4/12/2019</td>
<td>Fabio Silva, Juan Caamaño</td>
</tr>
<tr>
<td>Book 'Post-Forest Fire Environmental Management'</td>
<td>Online</td>
<td>PCF Members have available the book 'Post-Forest Fire Environmental Management', by the author Joan Estrany, thanks to the collaboration with the University of the Balearic Islands.</td>
<td>DECEMBER 2019</td>
<td>60 members interested</td>
</tr>
</tbody>
</table>
# Communication

<table>
<thead>
<tr>
<th>Articles Published in 2019</th>
<th>National Geographic</th>
<th>El País</th>
<th>RTVE</th>
<th>Wildfire</th>
<th>La Vanguardia</th>
<th>Impakt</th>
<th>ELDIARIO.es</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td></td>
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</tbody>
</table>

We highlight the following:

<table>
<thead>
<tr>
<th>Articles Published in 2019 on the PCF Blog</th>
<th>Audiovisuals Published by Other Means</th>
<th>Audiovisuals Published by the PCF</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>9</td>
<td>39</td>
</tr>
</tbody>
</table>

Illustration: Pep Serra
The PCF has the support of professionals specialised in various areas of forest fires to carry out specific tasks, especially in knowledge of exchange activities. In this regard, throughout 2019 we have had the specific collaboration of 13 experts.
ECONOMIC REPORT

REVENUE

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales and services</td>
<td>184,539,98 €</td>
<td>26,67%</td>
</tr>
<tr>
<td>Projects with European funding</td>
<td>363,271,82 €</td>
<td>52,51%</td>
</tr>
<tr>
<td>Private grants</td>
<td>86,809,33 €</td>
<td>12,55%</td>
</tr>
<tr>
<td>Public grants</td>
<td>41,294,81 €</td>
<td>5,97%</td>
</tr>
<tr>
<td>Dues and donations</td>
<td>15,922,11 €</td>
<td>2,30%</td>
</tr>
<tr>
<td>Financial income</td>
<td>35,08 €</td>
<td>0,01%</td>
</tr>
<tr>
<td><strong>TOTAL REVENUE</strong></td>
<td><strong>691,873,13 €</strong></td>
<td></td>
</tr>
</tbody>
</table>

EXPENSES

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staff</td>
<td>397,582,49 €</td>
<td>58,59%</td>
</tr>
<tr>
<td>Purchases and other operating expenses</td>
<td>277,220,61 €</td>
<td>40,85%</td>
</tr>
<tr>
<td>Amortisations</td>
<td>3,251,72 €</td>
<td>0,48%</td>
</tr>
<tr>
<td>Financial expenses</td>
<td>507,60 €</td>
<td>0,07%</td>
</tr>
<tr>
<td><strong>TOTAL EXPENSES</strong></td>
<td><strong>678,562,42 €</strong></td>
<td></td>
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</tbody>
</table>