



European doctorate in Physics and Chemistry of Advanced Materials PCAM



Chairman: Horst-Günter Rubahn

<http://www.pcam-doctorate.eu>

The PCAM Network

- High ranking education and summer schools and workshops in Material Sciences
- 15 institutions and associated industries
- Stays at partner universities with benefit from expertise and facilities not available at the respective home institutions
- Additional European doctorate certificate awarded by an international board of scientists

A bit on the history of PCAM

Founded 2006 by Gian Paolo Brivio (first chairman) and colleagues

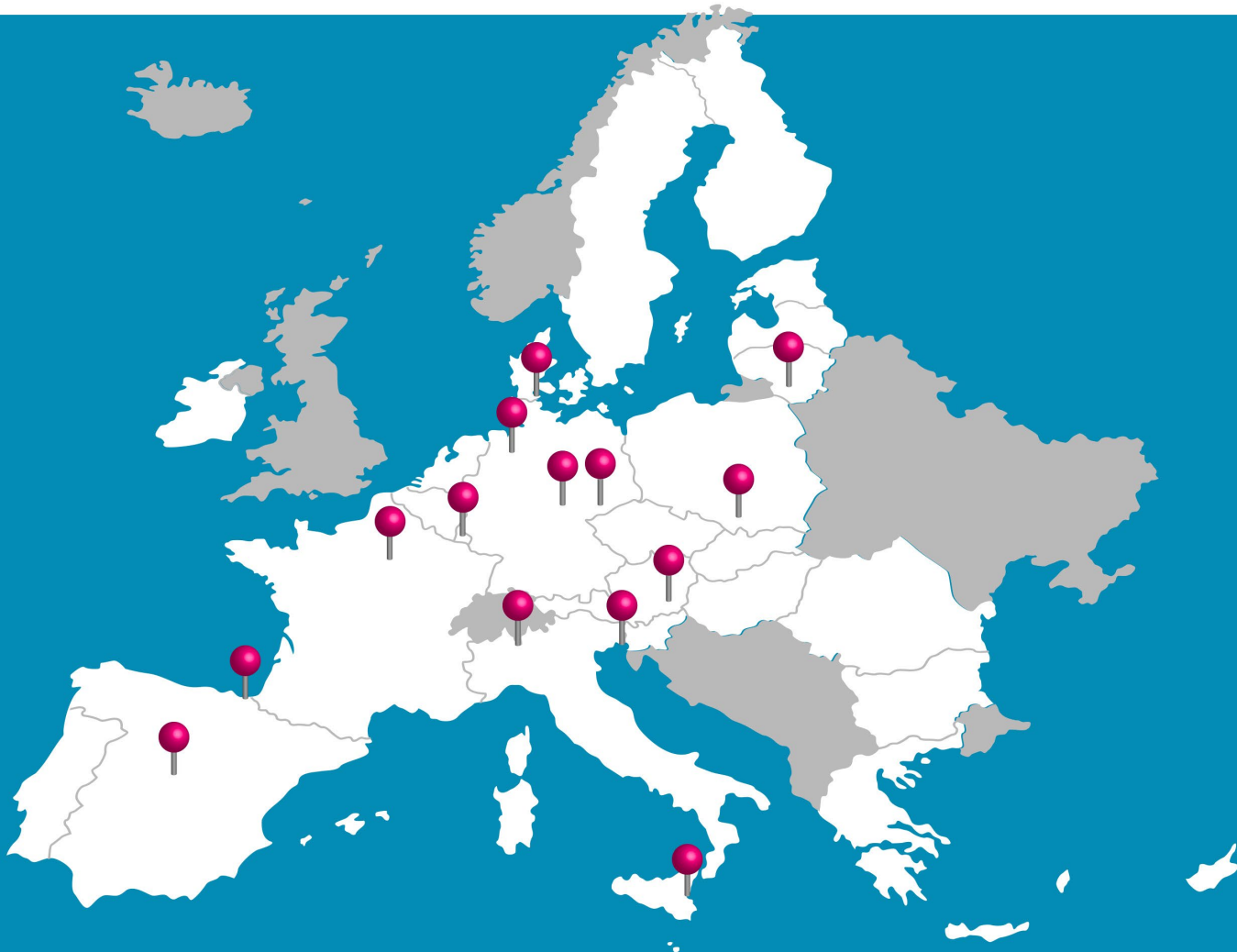
Annual summerschools since 2006 (Milano):

Italy, Denmark, Lithuania, Spain, France, Luxembourg

First awardee F.Silvestri, exchange Milano-Bicocca & UAM

ITN Thinface with most partners 2013 – 2017

Where is PCAM ?





Physics and Chemistry
of Advanced Materials
EUROPEAN DOCTORATE

Who is PCAM ?



University of
Trieste



University of
Milan



Jagiellonian
University
Kraków



University
of the Basque
Country



Sicilian
Science
Cluster



UNIVERSITY OF
SOUTHERN DENMARK



Technische
Universität
Dresden



University of
Milano-Bicocca



University of
Luxembourg



The Autonomous
University
of Madrid



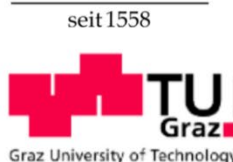
Friedrich Schiller
University Jena



Kaunas
University of
Technology



Carl Von
Ossietzky
University of
Oldenburg



Graz University
of Technology

Affiliated industries



SAES-Getters

Italy



Plasmore

Italy



GRAPHENEA

Graphenea

Spain



Danfoss

Denmark

Ample industry partners connected to the institutions



European Doctorate in Physics and Chemistry of Advanced Materials PCAM

It is hereby certified that a doctorate degree has been issued to

XXXXXX

bom in xxxxxx on xxxxx

The Rectors of the participating Universities
and the PCAM Coordinator have additionally called the degree as

**Doctor Europaeus
in Materials Science**

obtained within the collaborative network of doctorate programmes in

Physics and Chemistry of Advanced Materials,

in recognition of the fulfillment of the requirements for this degree
as agreed by the European Rectors' Confederation (27/11/1992)

Date,

The PCAM Coordinator

The Rector's Nominee
Partner University xxxx

The Rector's Nominee
Host University xxxx

What do you get ?

Mandatory requests for a PCAM doctorate

- Stay abroad for a minimum of 3 months
- Two external referees not belonging to the home university
- Thesis needs to be sent to PCAM delegates

In addition we would like to see

- Attendance to at least one PCAM summer school
- One exam passed at a guest university or summer-school

Various national awards, e.g., "Gius
the Division of Theoretical and Com
the Italian Society of Chemistry (SC



**Gian Paolo Brivio
International
Prize for Physics
and Chemistry of
Advanced
Materials**

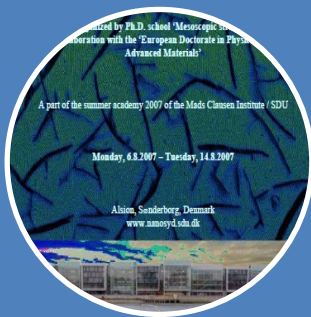
- First time awarded 2022 in memory of Gian Paolo Brivio, the founder of PCAM
- The prize is awarded to a young researcher working at a European institution, aged no more than 32 years, for research and results in the field of physics and chemistry of advanced materials
- Prize announcement will be during the summer school of PCAM

Past schools



2006

Self-Assembled
Monolayers
(Univ Milano-
Bicocca, Italy)



2007

At the frontier
of optics: from
the meso- to
the nanoscale"
(Sønderborg,
Denmark)



2008

Physics and
Chemistry of
Advanced
Materials
(Palanga,
Lithuania)



2009

Materials for
Energetics
(Univ. Milano-
Bicocca, Italy)



2010

Basics of
Materials
Sciences
(Palanga,
Lithuania)

SUMMER SCHOOLS

Past schools



2011

Electronic and
Optical
Properties of
Nanoscale
Materials
(San Sebastian,
Spain)



2012

Simulations for
Materials
Science
(Moscow,
Russia)



2013

Renewable
energy
conversion and
storage
(Centro Volta,
Como, Italy)



2014

Stability,
reliability and
promises of
organic systems
(Sønderborg,
Denmark)



2015

Organic
electronics:
from molecules
to biomaterials
(Centro Volta,
Como, Italy)

SUMMER SCHOOLS

Forthcoming schools



2016

Nanosciences
and hybrid
materials
(Paris, France)



2017

Surfaces and
Interfaces
San Sebastian
(Spain)



2018

Advanced
Materials and
Technology
Palanga
(Lithuania)



2019

Future
perspectives in
catalysis
Bremerhave
(Germany)



2022

Surface Science
together with
ECOSS 2022
Luxembourg

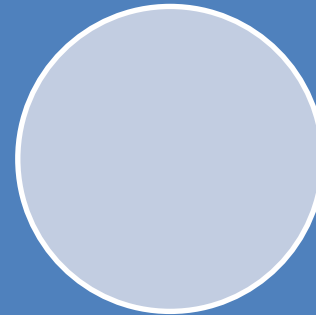
SUMMER SCHOOLS

Upcoming school



2023

Together with ECROSS 2023 in Lodz
(Poland)



2024

SUMMER SCHOOLS

FUNDING

- DOMOS project, CARIPLO Foundation (2008-2011)
- PANDORA project, CARIPLO Foundation (2010-2014)
- Pierre et Marie Curie, ITN, THINFACE (2013-2017)

- Various University funds
- Erasmus+

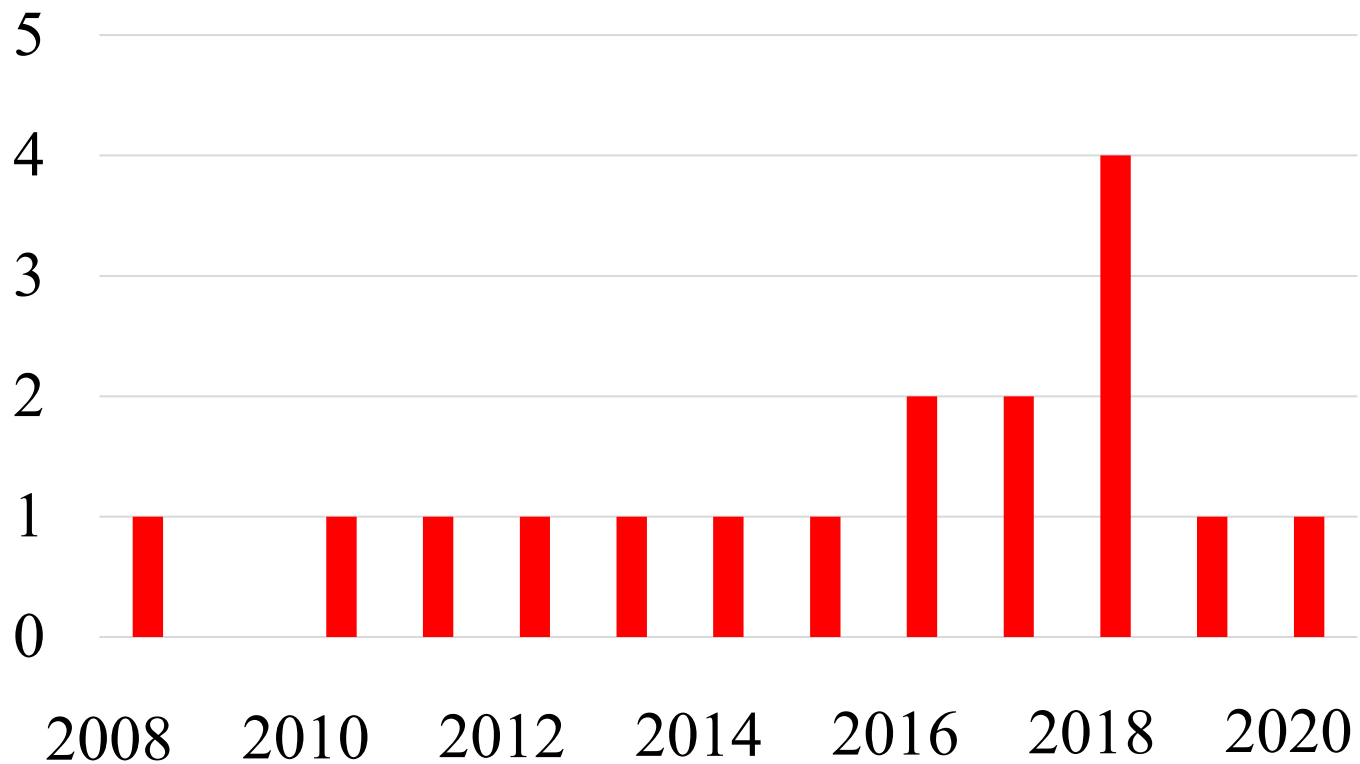
- Note: in case of uncertainty contact your university representative or the PCAM secretariate; there are ad hoc financial support possibilities

Recent European Doctorate Awardees

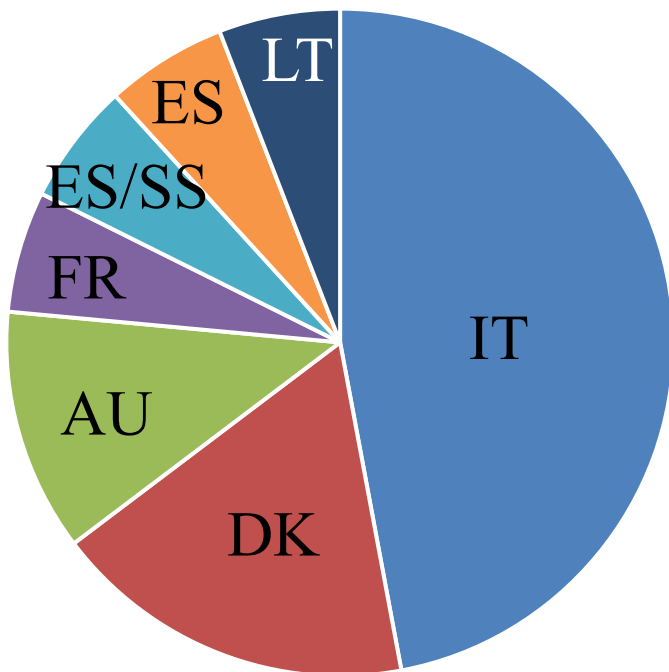
Name	Surname	University	Date	Secondments
Paola	Pellacani	Autonoma de Madrid	2017	Plasmore srl
Mina	Mirsafaei	Southern Denmark	2018	Universidad Autonoma de Madrid
Golnaz	Sherafatipour	Southern Denmark	2018	Technische Universität Dresden
Mattia	Farronato	Sorbonne University	2018	Technische Universität Graz
Shashank	Harivyasi	TU Graz	2018	University of Southern Denmark
Moritz	Müller	Univ. Basque Country	2019	University Milan
Aušrinė	Jurkevičiūtė	Kaunas University of Technology	2020	University of Southern Denmark
Mindaugas	Juodėnas	Kaunas University of Technology	2021	University of Southern Denmark

Total since 2008: 18

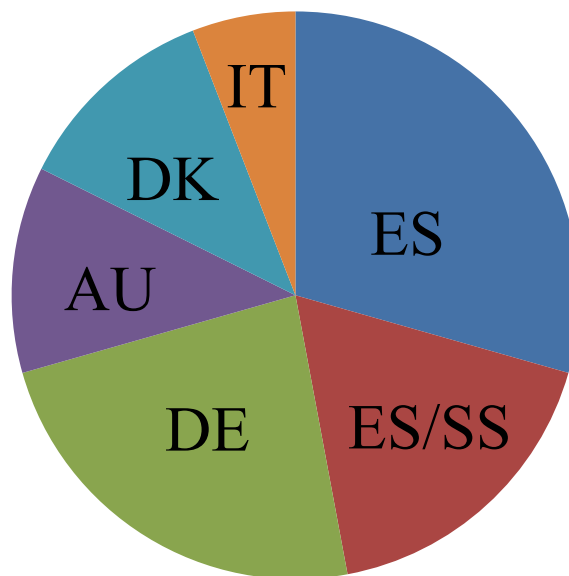
PCAM European PhD Awardees



host countries



secondment countries



Topics of Doctorate Awardees

Name	Surname	University	Date	Secondments
Anu	Baby	Milano-Bicocca	2016	Technische Universität Graz
Marco	Salvalaglio	Milano-Bicocca	2016	Technische Universität Dresden
Abhilash	Ravikumar	Milano-Bicocca	2017	University of the Basque Country
Paola	Pellacani	Autonoma de Madrid	2017	Plasmore srl
Mina	Mirsafaei	University of Southern Denmark	2018	Universidad Autonoma de Madrid
Golnaz	Sherafatipour	University of Southern Denmark	2018	Technische Universität Dresden
Mattia	Farronato	Sorbonne University	2018	Technische Universität Graz
Shashank	Harivyasi	TU Graz	2018	University of Southern Denmark
Moritz	Müller	Univ. Basque Country	2019	University Milan
Aušrinė	Jurkevičiūtė	Kaunas University of Technology	2020	University of Southern Denmark

Electronic, spin-dependent, conductive properties of modified graphene

Degradation Pathways in Organic Small Molecule and Hybrid Solar Cells

Theory of Ultrafast Electron Transfer from Localized Quantum States at Surfaces

Laser Patterning of Nanocomposite Diamond-Like Carbon Thin Films With Metal Nanoparticles and Investigation of Their Optical and Structural Properties

PCAM Seminar

- Once a month we hear a talk of a PhD student of one of our partners
- Upcoming talks:
 - 15 Dec Miguel Angel Leon Luna, SDU
 - 12 Jan , Oldenburg
 - 9 Feb Reza Albohassani, SDU