

## LOCATION & TRANSPORTATION

Donostia International Physics Centre (DIPC)  
University of the Basque Country  
Campus of Gipuzkoa  
Paseo Manuel de Larzibal 4  
20018 Donostia - San Sebastian  
Spain

Donostia/San Sebastian is located in the northeast of the Spanish Basque Country. This charming medium-size city is set in picturesque countryside, on the edge of the Biscay Gulf and surrounded by mountains.

**There are three main airports that can be used to reach San Sebastian:**

**Bilbao airport**, Spain (IATA: BIO, 100 km from the city center). About 1 hour's drive from San Sebastian. An international airport with connections to all major cities in Europe. The most convenient one for overseas travellers in terms of connections and air fares. A direct shuttle bus running every hour connects the airport with San Sebastian for about 17 euros. The bus time table is available at [www.pesa.net](http://www.pesa.net) (search between „LOIU AIREPORTUA“ and „DONOSTIA/SAN SEBASTIAN“).

**San Sebastian airport**, Spain (IATA: EAS, 25 km from the city center). Next to the town of Hondarribia, about 30 minutes drive from San Sebastian. A small airport with domestic connections to Madrid and Barcelona. Iberia flies to this airport. Convenient when a connection through Madrid is possible. A taxi connecting the airport and the city should be around 30 euros. The airport is also connected to the city center with lines E20 and E21 operated by Ekialdebus ([www.ekialdebus.eus](http://www.ekialdebus.eus)).

**Biarritz airport**, France (IATA: BIO, 50 km from the city center). 40 minutes drive from San Sebastian. Air France flies to this airport, and some low-cost airlines such as Ryanair also fly here. Public transportation is complicated between Biarritz and San Sebastian.

## ACCOMMODATION

The registration does not include accommodation and participants should make their own booking separately. Donostia-San Sebastian offers a great variety of different kinds of accommodations, ranging from 5-star hotels to hostels and flats. In order to make it easier for you to find the accommodation that better suits you, we suggest to have a look at the San Sebastian Tourist Office link:

[www.sansebastianturismo.com/en/sleep/where-to-sleep](http://www.sansebastianturismo.com/en/sleep/where-to-sleep).

Some hotels near the workshop venue are:

- Hotel San Sebastian \*\*\*\* (<http://hotelsansebastian.net/>)
- Hotel NH-San Sebastian\*\*\*\* (<https://www.nh-hoteles.es/hotel/nh-san-sebastian-donosti>)
- Hotel Codina\*\*\* (<http://en.hotelcodinasansebastian.com>)
- Hotel Ezeiza\*\* (<https://www.hotelezeiza.com>)
- Hotel La Galeria\*\* (<http://hotellagaleria.com>)

San Sebastian is a city popular with tourists and hotels are usually full. We strongly recommend to book accommodation as early as possible.

## CONTACT

### Workshop Chairpersons

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### Local Organizing Committee

Josexto Pomposo, Angel Moreno, Arantxa Arbe  
Materials Physics Center (CSIC-UPV/EHV),  
San Sebastian, Spain

Workshop website:  
[www.fz-juelich.de/jcns/FunctPolym2018](http://www.fz-juelich.de/jcns/FunctPolym2018)

Joint DIPC, JCNS & SoftComp Workshop 2018:

# Functional Polymers

19 - 21 March 2018, San Sebastian, Spain



## SCOPE

Following on in the tradition of events jointly organized by the Donostia International Physics Center (DIPC, San Sebastian, Spain), the Jülich Centre for Neutron Science (JCNS, Forschungszentrum Jülich, Germany) and the European Network of Excellence SoftComp, a workshop on “Functional Polymers” is being organized to take place in spring 2018 in San Sebastian, Spain.

The workshop focuses on advanced polymer materials bringing together physicists and chemists who are interested in novel polymer nanocomposites, polymers functionalized with supramolecular groups and functional soft nano-objects:

(i) **Single chain nanoparticles (SCNPs)** display a molecular architecture containing multiple locally compact, but accessible, sites/cavities/zones so-called “local pockets” offering the possibility to anchor, either temporally or permanently, active species like e.g. catalysts or drugs. This offers huge possibilities for developing applications in nanomedicine, biosensing, bioimaging, catalysis and many other uses.

(ii) **One component nanocomposites (OCNC)** overcome the dispersion challenge and are expected to display structure-related ‘emergent’ properties that make them unique within the general field of nanocomposites (NC). OCNC have been proposed for energy storage in supercapacitors; for precise manufacturing of tunable hypersonic photonic crystals, as particle-brush building blocks for self-healing materials and biomedical polypeptide-based hybrids for drug carriers or building blocks for tissue engineering.

(iii) **Supramolecular polymers** form an emerging class of polymers that offer superior properties compared to their non-associating counterparts. Supramolecular linkers introduce additional functionality such as self-healing, responsiveness, directed self-assembly or self-organization.

A combination of OCNC or SCNP with such supramolecular moieties may open routes to novel advanced materials featuring the advantages of supramolecular systems and the properties of the novel nanocomposites. Designing such materials is a highly interdisciplinary process and requires synergies of physics and

chemistry as well as of microscopic and macroscopic investigations. In this context, oral as well as poster presentations are welcome.

## CONFIRMED INVITED SPEAKERS

### (i) Single chain nanoparticles:

- Alfredo Alexander-Katz, MIT, Boston, USA
- Juan Colmenero, DIPC and Materials Physics Center, San Sebastian, Spain
- Mark Dadmun, University of Tennessee, Knoxville, USA
- Gabriel Lemcoff, Ben Gurion University, Beer Sheva, Israel
- Jens-Uwe Sommer, Leibnitz Institut Polymer Research, Dresden, Germany

### (ii) One component nanocomposites:

- Anna Christina Balazs, University of Pittsburgh, Pittsburgh, USA
- Michael R. Bockstaller, Carnegie Mellon University, Pittsburgh, USA
- Sanat K. Kumar, Colombia University, New York, USA
- Dieter Richter, Forschungszentrum Jülich, Jülich, Germany
- Dimitris Vlassopoulos, FORTH, Heraklion, Greece

### (iii) Supramolecular polymers:

- Mitchell Anthamatten, University of Rochester, Rochester, USA
- Wolfgang Binder, Martin Luther University, Halle, Germany
- Wim Pyckhout-Hintzen, Forschungszentrum Jülich, Jülich, Germany
- Michael Rubinstein, University of North Carolina, Chapel Hill, USA
- Rent Shijbesma, Eindhoven University of Technology, Eindhoven, the Netherlands
- Zuowei Wang, University of Reading, Reading, UK

## CALL FOR PAPERS

Contributions on the topics of the Workshop as an oral or poster presentation are requested.

To present your work, please submit an abstract (one page maximum) headed by title, name(s) and complete address(es) of the author(s) as a Word or PDF file to [juan.colmenero@ehu.es](mailto:juan.colmenero@ehu.es)

## DEADLINES

Submission of abstracts	December 1, 2017
Notification of acceptance	January 15, 2018
Final registration	February 15, 2018
Payment deadline	February 15, 2018
Beginning of the Workshop	Monday, March 19, 2018
Registration open	Monday, March 19, 2018, 08:30
Opening of Workshop	Monday, March 19, 2018, 09:30
End of Workshop	Wednesday, March 21, 2018 13:00 End of Scientific Programme 13:00 Lunch

## WORKSHOP FEE

Full fee: 100€ | The workshop fee includes lunch, coffee breaks, and the conference dinner.

## REGISTRATION

For registration, please use the registration form that is available for download on the workshop website [www.fz-juelich.de/jcns/FunctPolym2018](http://www.fz-juelich.de/jcns/FunctPolym2018).

Please email the completed form to [juan.colmenero@ehu.es](mailto:juan.colmenero@ehu.es) along with a copy of the bank transfer document.

Please transfer the full fee to DIPC:

IBAN: ES52 2095 0611 0110 6213 4290

SWIFT/BIC: BASKES2BXXX

Please include the following reference when making the transfer: “your name + DIPC-JCNS Workshop 18”