

10th RES Users'Conference & 5th HPC Advisory Council Spain Conference

Registration to join the conferences is open till 15th September 2016.



The Spanish Supercomputing Network (RES), coordinated by the Barcelona Supercomputing Center (BSC), and the High Performance Computing Advisory Council, will hold the **5th HPC Advisory Council Spain Conference and the 10th RES Users'Conference on 20th & 21st September 2016**, in León (Spain).

The **HPC Advisory Council Spain Conference's** objective is to encourage an interactive exchange through keynote, panel, technical and sponsor sessions and addresses a range of interests, disciplines and topics such as: Ushering in the Exascale Era, Deep Learning, Machine Learning and Artificial Intelligence, Data Sciences and Big Data Acceleration ... and much more.

The **10th RES Users'Conference** will inform on the available resources and services, as well as the request method and review procedure, to disseminate the results obtained using the RES supercomputing facilities, and to offer a discussion forum between the users, the CURES and the RES coordination. Moreover it will share the experience of PRACE (Partnership for Advanced Computing in Europe) users and how to request acces to those european infrastructures.

[REGISTRATION](#)

Registration to join the conferences is open till 15th September 2016

IMPORTANT NOTICES:

Accommodation : [In this pdf you will find recommended hotels with special prices for the conference.](#)

The venue : [Parador de León](#), Pza. de San Marcos, 7 24001 León

The events schedule is:

10th RES Users' Conference - September 20th, 2016

5th HPC Advisory Council Spain Conference - September 21st, 2016.

Date: Tuesday, 20 September, 2016 - 09:30

Agenda:

09:30.AM	Registration and gathering
10:00.AM	Welcome by LEÓN representative
10:10.AM	Welcome by MINECO Jose Ignacio Doncel
10:20.AM	Red Española de Supercomputación: 10 years already Sergi Girona, BSC-CNS
10:35.AM	RedIris, la red que nos conecta Alberto Perez, Red.es
10:50.AM	Coffee break
11:20.AM	How to access to RES and PRACE resources David Vicente, BSC-CNS
11:45.AM	Updates from RES User Committee
12:10.PM	How works the Scientific Steering Committee (SSC) of PRACE Ignacio Pagonabarraga, UB and member of PRACE SSC
12:30.PM	RESxPYME: Objetivos y estado del arte Javier Garcia Tobio, Director of CESGA
12:50.PM	Scientific keynote to be determined

01:30.PM	LUNCH			
02:30.PM	4 Parallel sessions dedicated to specific research areas with 6 speakers each one			
	Life and Health Sciences Chair: Mercedes Alfonso, UB	Mathematics, Physics and Engineering Chair: Ignacio Pagonabarraga, UB	Astronomy, Space and Earth Sciences Chair: Sascha Husa, UIB	Chemistry and Materials Science and Technology Chair: Stefan T. Bromley, UB
	Assembly of large, salty and fat viruses: when a bit of grease helps. Nicola GA Abrescia- CIC bioGUNE	Fernando Martin, UAM	Elena Khomenko, IAC	Structural, electronic and transport properties of distorted nanographenes by DFT methods Blanca Biel, UGR
	Is solvation/desolvation enough to unravel protein interactions? Examples on HIV-1 gp41-based miniprotein antibody eliciting and sGC ligand binding. Jordi Villà i Freixa - Universitat de Vic	GPU support in the SLEPc library for eigenvalue computations Jose Roman, UPV	Sergio Zlotnik, UPC	Atomistic modelling studies of electrode materials for rechargeable lithium and sodium batteries Javier Carrasco, CICENERGIGUNE
	Allosteric inter-domain signalling controls SHIP2 phosphatase activity. Daniel Lietha – CNIO	Rubén Seoane, UAM	Roberto San Jose, UPM	Using supercomputers for fast advancing in heterogeneous photocatalysis technologies Anna Paola Migani, CIN2
	Study of G protein-coupled receptors with molecular dynamics computer simulations Leonardo Pardo – UAB	Thermal transport in disordered nanostructured materials Riccardo Rurali, ICMAB	Eleftheria Exarchou, BSC-CNS	Konstantin Neyman, ICREA-UB
	Dynamic Undocking, a new tool for virtual ligand screening. Xavier Barrill – UB	Towards the modelling of combustion systems Daniel Mira, BSC-CNS	Gustavo Yepes Alonso, UAM	Maria Jose Cartula, Universidad de Alicante

	Conformational modulation in a glycosyltransferase: evidence of mixed conformational selection and induced fit mechanisms by bias-exchange metadynamics. Javier Romero García - IQS-URL	Parallelization of Smoothed Particle Hydrodynamics for engineering applications with the heterogeneous architectures Jose Manuel Domínguez Alonso, UVIG	TBC	Carlos Vega, Universidad Complutense de Madrid
05:30.PM	Conclusions, farewell and next RES Users Conference			
05:45.PM	End of the conference			

HPC Advisory Council Agenda and local web page : www.hpcadvisorycouncil.com/events/2016/spain-conference/

Registration:

[Register your attendance to the meetings you are interested in.](#)

Target group:

The conferences are aimed at all the RES users, potential users of the RES and PRACE facilities. Also it is interesting for students or scientifics interested in the topics of science and supercomputing services. Finally it is also important for companies involved in the High Performance Computing technology.

INSTRUCTIONS FOR POSTER PRESENTERS AT THE 10th RES USERS' MEETING

The posters format should be preferably A0 (landscape or portrait orientation).

The printed poster must be handed over to the organisers during the registration (from 9h to 9:30h of 20th September).

Please send your Poster proposals to applications@bsc.es

Venue:

[Parador de León](#), Pza. de San Marcos, 7 24001 León

Cost:

Attendance to the conferences is free of charge. Nevertheless registration is compulsory due to organization tasks.

Recommended accommodation:

In the following PDF file you will find information about the recommended accommodation for the event : [accommodation recommendations](#).

ORGANISERS' INFORMATION

About the HPC Advisory Council

The HPC Advisory Council's mission is to bridge the gap between high-performance computing (HPC) use and its potential, bring the beneficial capabilities of HPC to new users for better research, education, innovation and product manufacturing, bring users the expertise needed to operate HPC systems, provide application designers with the tools needed to enable parallel computing, and to strengthen the qualification and integration of HPC system products. For more information about the HPC Advisory Council, please visit www.hpcadvisorycouncil.com.

About the Barcelona Supercomputing Center (BSC-CNS)

The Barcelona Supercomputing Center is the national supercomputing centre in Spain. The BSC-CNS specialises in high performance computing (HPC) and its mission is two-fold: to provide infrastructure and supercomputing services to European scientists, and to generate knowledge and technology to transfer to business and society.

It is a Severo Ochoa Center of Excellence and a first level member of the European research infrastructure PRACE (Partnership for Advanced Computing in Europe). The BSC-CNS also manages the Spanish Supercomputing Network (RES). More information at: <http://www.bsc.es/>

About the Spanish Supercomputing Network (RES)

The Spanish Supercomputing network (Red Española de Supercomputing - RES) is a distributed supercomputer structure, the aim of which is to meet the needs of research groups in Spain. The RES's technical management is coordinated by the BSC-CNS and answers the scientific community's growing need for supercomputing.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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