

Severo Ochoa Research Seminar Program in 2013 -15

SORS Lectures at BSC 2014-15

Date - Time- Place	Lecture Title	Speaker
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Summer Lecture Series:

17/07/15 - 10:00	Sala de Junes, Rectorat	Towards Energy-Efficient Computing: Adaptive Management Strategies from Software to Systems	Ayse K. Coskun	Boston University, USA
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10/07/15 - 10:00	Sala Gran, Torre Girona	Summer Lecture Series: Energy Efficient Computing Systems	Juan Cebrián	Norwegian university of science and technology, NTNU
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Closing Session:

22/06/15 - 12:00	Sala d'Actes FIB, B6	The end of Von Neumann, the end of Moore's Law, and the end of Dennard Scaling. The new mantras are dark silicon, quantum computing, and approximate computing. What does it all mean for the microprocessor of 2025?	Yale Patt	Ernest Cockrell, Jr. Centennial Chair, University of Texas at Austin, USA
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16/06/15 - 11:00	Sala Gran, Torre Girona	Principal Component Analysis for Establishing Characteristic Behaviour	Raul Ramirez	ITESM, Mexico
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11/06/15 - 11:00	Sala de Junes , FIB	Scheduling scientific workflows for energy and performance	Rizos Sakellariou	Manchester University, UK
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10/06/15 - 10:00	Sala de Actes, FIB	Capsaicina y la danza de las neuronas	Dr Pablo Rudomin	Mexico
21/05/15 - 15:00	Sala de Actes, FIB	Unlock performance secrets of next-gen Intel hardware: software tools-driven code modernization	Zakhar Matveev	Intel Corporation.
11/05/15 - 11:00	Rectorat's Sala de Junes	Contribution of climate and landuse changes to dust decadal variability	Dr. Paul Ginoux	NOAA Geophysical Fluid Dynamics Laboratory
30/04/15- 12:00	C6-E101, UPC	Optimization Issues in Data-Intensive Flows	Anastasios Gounaris	Aristotle University of Thessaloniki, Greece.
24/04/15 - 11:30	Gran Sala, Torre Girona	Turbulence understanding and prediction in confined magnetic plasmas	Jeronimo Garcia	CEA, FRance
13/04/15 - 11:00	Gran Sala, Torre Girona	Hybrid modelling of the magnetoacoustic cyclotron instability in relation to ion cyclotron emission in D-T JET plasmas	Leopoldo Carbajal Gomez	University of Warwick, UK
26/03/15- 11:00	Rectorat's Sala de Junes	Using Brittle Fragmentation Theory to Estimate Aerosol Mineral Composition in Climate Models	Carlos Perez Garcia-Pando	NASA Goddard Institute & Columbia, USA
24/03/15 - 11:00	Gran Sala, Torre Girona	Parallel quasi-Monte Carlo simulation of ultrafast carrier transport	Aneta Karaivanova	IICT-BAS, Bulgaria
20/03/15 - 11:30	Sala d'Actes FIB, B6	Scheduling with uncertainty in Grids and Clouds	Andrei Chernykh	CICESE, Ensenada, Mexico
26/02/15 - 11:30	Sala d'Actes FIB, B6	Memory System Innovations to Enable More Efficient Data Centers	Sally McKee	Chalmers University of Technology
20/02/15 - 11:30	Sala d'Actes FIB, B6	Climate prediction for climate services	Francisco J. Doblas-Reyes	BSC - Earth Science

19/12/14 - 11:00 - 13:00	Sala d'Actes FIB, B6	<u>Christmas Lecture Registration:</u> Equilibrium and stability of fusion plasmas via three-dimensional Magneto-Hydrodynamics	Dr. Joaquim Loizu	Princeton Plasma Physics Laboratory
		coffe break		
		Enhanced molecular dynamics to understand the structural and energetics determinants of MEK1 pathological mutations	Chiara Pallara	BSC - Life Sciences Dept.
10/12/14 - 16:00	Sala d'Actes FIB, B6	Managing Big Trajectory Data: Online processing of positional streams	Timos Sellis	RMIT University
28/11/14 - 11:30	Sala d'Actes FIB, B6	On--?line coupling of volcanic ash and aerosols transport with multiscale meteorological models	Alejandro Marti Dinati	BSC - CASE
20/11/14 - 18:30	Sala d'Actes FIB, B6	Building a Unified Data Pipeline in Apache Spark	Aaron Davidson and Paco Nathan	Databricks
31/10/14 - 11:30	Sala d'Actes FIB, B6	Recent updates on the genetics of type 2 diabetes	Josep Maria Mercader	BSC - Life Sciences Dept.
01/10/14 - 11:30	Rectorat, Sala de Juntres,	Database Analytics with High Level Synthesis on FPGAs	Gorker Alp Malazgirt	Bogazici University, Computer Engineering Department
26/09/14–11:30	Sala d'Actes FIB, B6	Opening session: Modelling of ion cyclotron resonance frequency heating in JET in preparation of ITER	Dr. Mervi Mantsinen	BSC - CASE
25/09/14 -11:00	Sala de Juntres, Rectorat	Summer Lecture: Co-design for Next-Generation Extreme Scale Data Processing	Dr. Scott Klasky (Invited speaker)	Computer Science and Mathematics Division Oak Ridge National Laboratory and Georgia Tech University

24/07/14 - 11:00 Sala d'Actes FIB, B6 [Summer lecture: Topology-aware placement and load-balancing](#) Emmanel Jeannot, Senior research scientist, LaBRi laboratory at INRIA-Bordeaux (Invited speaker)

SORS Lectures at BSC 2013-14

Date - Time- Place	Lecture Title	Speaker
27/09 - 10:00 AULARI A4 room A4002? Amfiteatre , Campus Nord	Understanding Cerebral Aneurysms through HPC-based Computational Modeling	Mariano Vazquez, CASE Department at BSC
25/10 - 10:00 Sala d'Actes FIB Campus Nord	Receptor Sampling with Dpedmd for Virtual Screening Analysis of Mechanical Parameters Using End-Diastolic Measurements The multiscale NMMB/BSC Chemical Transport Model: developments of inlined aerosol and gas chemistry processes	Ramon Goñi, Life Sciences Dept. at BSC Ruth Arís, CASE Dept. at BSC Oriol Jorba, Earth Science Dept. at BSC
15/11 - 10:00 am Sala d'Actes FIB (B6) Campus Nord	Known and unknown unknowns in aerosol modelling	Nick Schutgens, Atmospheric, Oceanic and Planetary Physics , University of Oxford ,UK

<p>16/12 - 10:00am,</p> <p>“Aula de Telensenyament” on 1st Floor of ETSETB (building B3)</p> <p>Campus Nord</p>	<p>Extreme Scaling on SuperMUC</p>	<p>Prof. Dr. Dieter Kranzlmüller, LMUniversity, Germany, Member of the Board of Directors of LRZ</p>
<p>14/01 - 12:00</p> <p>E101 room of the C6 building.</p>	<p>Performance Analysis Techniques for the Exascale Co-Design Process</p>	<p>Dr. Martin Schulz (Lawrence Livermore National Laboratory)</p>
<p>24/01/2014 - 10:00am</p> <p>“Aula de Telensenyament” on 1st Floor of ETSETB (building B3)</p> <p>Campus Nord</p>	<p>Multi-objective Optimisation and Big Data</p>	<p>Prof Young Shi, CASFEDS Centre, Chinese Academy of Sciences and University of Omaha</p>
<p>28/02 - 10:00 am Sala d’Actes FIB</p> <p>Campus Nord</p>	<p>HPC simulation using xSim – The Extreme-scale Simulator</p>	<p>Janko Strassburg, Computer Science Dept, BSC</p>
<p>18/03</p>	<p>The Perfect Storm</p>	<p>Paolo Faraboschi (Invited speaker)</p>
<p>09/05 - 10:00am</p> <p>Sala de Juntes (Rectorat) Campus Nord</p>	<p>An In-silico framework for Cardiac Drug Testing: From Genes, to function, to human heart physiopathology</p> <p>Exploring mechanistic details in enzyme catalysis through multiscale hybrid QM/MM simulations.</p>	<p>Jazmin Aguado Sierra (CASE)</p> <p>Suwipa Saen-oon (Life)</p>
<p>27 - 28 May, by invitation</p>	<p>Doctoral Symposium</p>	<p>Organised by E&T Team with presentations from E&T team, BSC researchers, PhD supervisors and BSC/ FIB PhD students</p>

02 – 06/06 see AMBER home page	SO Summer School: AMBER Workshop	Organised by Life Sciences Department, Ramon Goñi
04/06 10 am Sala d'Actes FIB (B6)	Lights, Computer, Action: GPU Accelerated Molecular Dynamics, from Enzyme Activation to Membrane Dynamics	Ross Walker (Invited Speaker)
05/06 10am Sala d'Actes FIB (B6)	Assessment of Form and Function in the Large Airways	Raul Cetto (Invited Speaker)
06/06 12pm Sala Multimedia (B3)	Big Data Processing in Large-Scale Network Analysis and Billion-Scale Social Simulation	Toyotaro Suzumura (Invited speaker)
June - 09 - 20 , through registration	SO Summer School: Second European Earth System and Climate Modelling School	J. M. Baldasano(Earth Sci)
20/06 10 am Sala d'Actes FIB (B6)	How to ingest measurements into a computer simulation: data assimilation enhancement of an atmospheric model	Enza Di Tomaso (Earth Sci)
01/07 3 pm Sala d'Actes FIB (B6)	Parallelism: a serious goal or a silly mantra (and what else is needed for the microprocessor of 2024)	Yale Patt (Invited speaker)
03/07 - 11:00 Rectorat's Sala de Junes	Summer lecture: BioBlender: 3D Computer Graphics for Structural Biology	Monica Zoppè (Invited speaker)
24/07 - 11:00 Sala d'Actes FIB, B6	Summer lecture: Topology-aware placement and load-balancing	Emmanuel Jeannot, Senior research scientist, (Invited speaker)
25/09 -11:00 Sala de Junes, Rectorat	Summer Lecture: Co-design for Next-Generation Extreme Scale Data Processing	Dr. Scott Klasky (Invited speaker)

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