

# International Conference on Accelerator Optimization 7 – 9 October 2015, CNA, Seville (Spain)



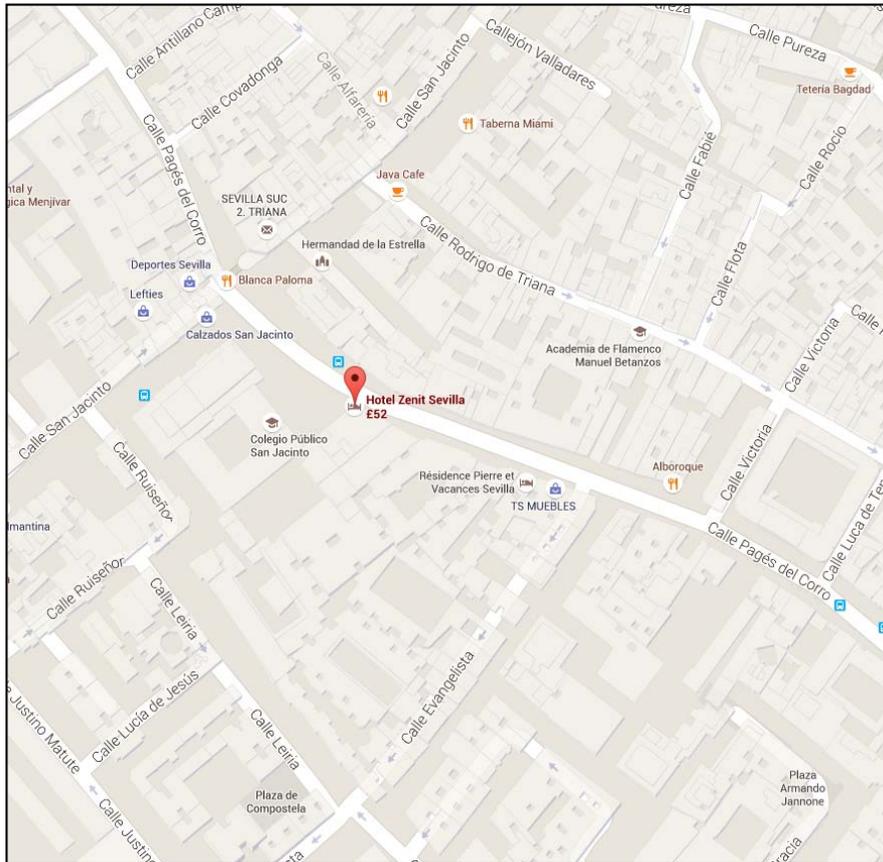
## ACCOMMODATION

Hotel Zenit Sevilla  
Calle Pagés del Corro, 90  
41010 Sevilla

<http://sevilla.zenithoteles.com>



A coach will depart from Hotel Zenit to CNA at 8:30 (Wed to Fri) and will return from CNA to the hotel at 18:15 (Wed & Thu only)



## HOW TO GET TO THE HOTEL

### By Taxi (recommended):

The taxi from and to the airport should not turn on their taximeter. There is a fixed price between the airport and any place in Seville.

Taxis to and from the airport should not charge you for any luggage. If you book a taxi by phone to the airport, the taximeter value from the point the taxi is booked to where he picks you up should be added to the fixed price mentioned above.

### By bus:

There is a bus service to and from the airport every ~30 minutes. Its main stops are Sevilla – Santa Justa train station, and Prado de San Sebastián.

To get to the hotel from the airport you should take the bus in the direction "Plaza de Armas" and get off at "Avenida del Cid / Prado de San Sebastián". From there you can take the bus C3 to Pagés del Corro Street.



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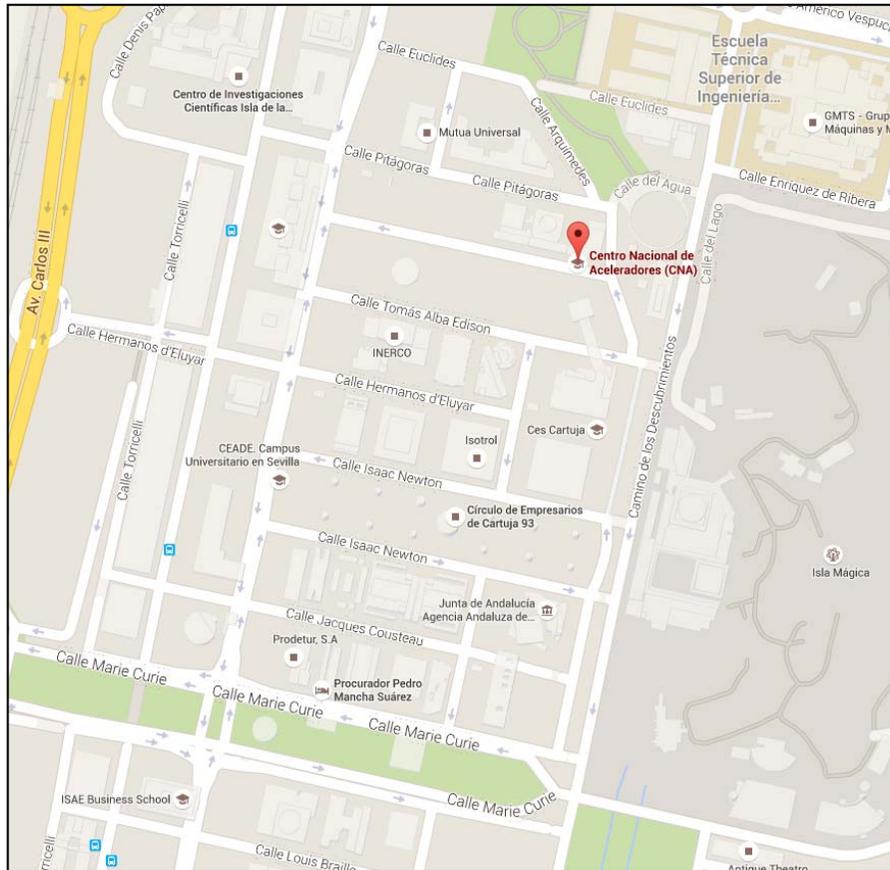
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### VENUE

Centro Nacional de Aceleradores (CNA)  
Calle Thomas Alva Edison, 7  
41092 Sevilla  
<http://acdc.sav.us.es/cna/>

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### OVERVIEW OF ACTIVITIES

#### Tuesday 6<sup>th</sup> October 2015

**20:00** Reception Dinner at Restaurante Río Grande

#### Wednesday 7<sup>th</sup> October 2015

Registration from **8:45** to **9:10**  
Conference from **9:10** to **17:50**

#### Thursday 8<sup>th</sup> October 2015

Conference from **9:00** to **17:50**  
**19:00** Public Talk at Pabellón de México  
**20:30** Conference Dinner at Hotel Los Seises

#### Friday 9<sup>th</sup> October 2015

Conference from **9:00** to **13:00** followed by lunch



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### CONFERENCE PROGRAM – Wednesday 7<sup>th</sup> October 2015

08:45	Registration	
09:10	Opening remarks	
09:10	Welcome	Prof. Carsten Welsch (The Cockcroft Institute - Univ. of Liverpool, UK) Prof. Joaquín Gómez (CNA, Univ. of Seville, Spain)
09:30	Invited talk	LHC and upgrades Dr. Oliver Brüning (CERN)
10:00	Contributed talk	Optics studies in the CERN PS Booster Dr. Meghan Mcateer (Helmholtz-Zentrum Berlin, Germany)
10:20	Contributed talk	Study of the single-bunch instabilities in the LHC Daria Astapovych (CERN)
10:40	Contributed talk	Tracking studies for the upgrades of the large hadron collider Emilia Cruz Alaniz (The Cockcroft Institute - Univ. of Liverpool, UK)
11:00		Coffee Break
11:30		
11:30	Contributed talk	The LHC Collimation System Optimization Dr. Héctor García Morales (Royal Holloway University of London, UK)
11:50	Contributed talk	Cryogenic Beam Loss Monitors for the Superconducting Magnets of the LHC Marcin R. Bartosik (CERN)
12:10	Contributed talk	Commissioning of the Prototype Stripline BPM System for the CLIC Drive Beam Alfonso Benot Morell (CERN and Instituto de Física Corpuscular, Spain)
12:30	Contributed talk	Applications of fast feedback for beam stabilisation at future electron-positron colliders Glenn Christian (University of Oxford, UK)
12:50		Lunch
14:00		
14:00	Invited talk	Next Generation heavy ion accelerators: FAIR within the international Accelerator Road Map Prof. Dr. Oliver Kester (GSI, Germany)
14:30	Contributed talk	A cryogenic current comparator for the low energy antiproton facilities at CERN Miguel F. Abreu Fernandes (CERN)
14:50	Contributed talk	Development of a novel position-resolving cavity for the isochronous mass measurement in the CR@FAIR Xiangcheng Chen (GSI, Germany)
15:10	Contributed talk	Designing ESS cold linac BLM system using heuristic optimisation algorithms Michał Jarosz (European Spallation Source, Sweden)
15:30		Poster Session
16:30		
16:30	Contributed talk	The Laser Laboratory for Acceleration and Applications (L2A2) Prof. José Benlliure (Universidad de Santiago de Compostela, Spain)
16:50	Contributed talk	Real time beam monitoring in the INFN-LNS Superconducting Cyclotron injection line Dr. Dario Nicolosi (INFN - Laboratori Nazionali del Sud, Italy)
17:10	Contributed talk	Developments and Optimisation of the University of Birmingham Cyclotron Dr. Tony Price (University of Birmingham, UK)
17:30	Contributed talk	Proposal for a 72.75 MHz RFQ for the LINCE Accelerator Complex Dr. Angie Orduz (Universidad de Huelva, Spain)
17:50		



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### CONFERENCE PROGRAM – Thursday 8<sup>th</sup> October 2015

09:00	Invited talk	Solaris - the Polish Light Source - a new generation of high brightness storage rings <b>Dr. Adriana Wawrzyniak (Solaris, Poland)</b>
09:30	Contributed talk	Linear optics characterization from turn-by-turn measurements at the Alba storage ring <b>Michele Caria (ALBA-CELLS, Spain)</b>
09:30	Contributed talk	Storage Ring Performance Improvement Based on Genetic Algorithms <b>Xavier Nuel Gavalda (SOLEIL, France)</b>
09:50	Contributed talk	Development and applications of the Time Correlated Single Photon Counting at ALBA <b>Laura Torino (ALBA-CELLS, Spain)</b>
10:10	Contributed talk	Diagnosics and feedback requirements for the new Low-Emittance Ring of the ESRF <b>Dr. Bertus Kees Sheidt (ESRF, France)</b>
10:30	Contributed talk	
10:50	Contributed talk	
Coffee Break		
11:30	Invited talk	Accelerator applications at IBA <b>Dr. Eric Forton (IBA, Belgium)</b>
12:00	Invited talk	Progress in Accelerator Mass Spectrometry <b>Prof. Dr. Hans-Arno Synal (ETH Zürich, Switzerland)</b>
12:00	Contributed talk	Best performance and optimization of a linear injector <b>Dr. Liviu Penescu (EBG MedAustron GmbH, Austria)</b>
12:30	Contributed talk	
12:50	Contributed talk	
Lunch		
14:00 - 14:10 Scientific Photography Awards, sponsored by Oerlikon Leybold Vacuum		
14:10	Contributed talk	Proton beam optimization for dosimetry studies with radiochromic films and ionization chambers at the 3 MV tandem accelerator of CNA <b>Maria Cristina Battaglia (CNA, Spain)</b>
14:30	Contributed talk	Study of heavy ion implantation into dielectric matrices <b>Salvatore Bruschetta (CNA, Spain)</b>
14:30	Contributed talk	Recent developments of the 1 MV AMS facility at CNA <b>Grazia Scognamiglio (CNA, Spain)</b>
14:50	Contributed talk	Preliminary beam profile studies for optimization of the CNA irradiation lines <b>Dr. Yolanda Morilla (CNA, Spain)</b>
15:10	Contributed talk	
15:30	Contributed talk	
Poster Session		
16:30	Contributed talk	A versatile neutron monitor <b>Pavel Kavrigin (CIVIDEK Instrumentation, Austria)</b>
16:50	Contributed talk	Measurement of the fluorescence yield produced by a 135 to 2000 MeV proton beam at COSY <b>Charlotte Roose (European Spallation Source, Sweden)</b>
17:10	Contributed talk	Optimization of Beam Position and Phase Monitors for the IFMIF/LIPAC high current hadron linear accelerator <b>Dr. Ivan Podadera (CIEMAT, Spain)</b>
17:30	Contributed talk	Design of cavity BPM electronics for the ELI-NP project <b>Manuel Cargnelutti (Instrumentation Technologies, Slovenia)</b>
17:50	Contributed talk	
19:00	Public talk	Acceleradores para medicina (in Spanish) <b>Dr. María Isabel Gallardo</b>
20:00	Public talk	<i>Pabellón de México, Paseo de las Delicias s/n, Sevilla</i>



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### CONFERENCE PROGRAM – Friday 9<sup>th</sup> October 2015

09:00	Invited talk	Next generation detector technologies Dr. Ingrid-Maria Gregor (DESY - ATLAS, Germany)
09:30	Contributed talk	TANGO control system for electrostatic accelerators Dr. Víctor Joco (Universidad Autónoma de Madrid, Spain)
09:50	Contributed talk	Device Control Database Tool (DCDB) Pavel Maslov (Cosylab, Slovenia)
10:10	Contributed talk	High Performance Tool For Coupled Linac Design Dr. Marco Pannullo (INFN - National Institute for Nuclear Physics, Italy)
10:30	Contributed talk	The GPU based Particle-in-Cell Solver Martina Sofranac (CST, Germany)
10:50	Contributed talk	Coffee Break
11:30	Contributed talk	Characterization of the optical performance of high resolution electron beam imaging systems Dr. Ralph Fiorito (University of Liverpool, UK)
11:50	Contributed talk	Non-invasive profile monitors for energy-frontier machines Dr. Adam Jeff (CERN and University of Liverpool, UK)
12:10	Contributed talk	Recent development of the supersonic gas-jet beam profile monitor Dr. Hao Zhang (University of Liverpool, UK)
12:30	Contributed talk	Reward-renewal model of sIPM response to arbitrary waveform optical signals of beam loss monitoring systems Dr. Sergey Vinogradov (University of Liverpool, UK)
12:50	Contributed talk	Closure
12:50 - 13:00		
Lunch		

### POSTERS

Correlation between LHC beam losses and BLM signals Eleftherios Skordis (CERN)
High precision characterization of optical imaging systems Joseph Wolfenden (The Cockcroft Institute - Univ. of Liverpool, UK)
Study and Characterization of Magnetic Materials for Beam Intensity Monitors Silvia Aguilera (CERN)
Measuring the Emittance of a Low Energy Antiproton Beam James Hunt (The Cockcroft Institute - Univ. of Liverpool, UK)
Mechanical design of a Beam Gas Vertex detector prototype for the LHC Paolo Magagnin (CERN)
Electron rephasing in a laser-plasma accelerator Andreas Döpp (University of Salamanca, Spain)
Laser-driven ion acceleration from ultrathin targets Luca Stockhausen (University of Salamanca, Spain)
Diagnostics of a High Voltage Test Bench for the Characterization and Optimization of Cold Cathode PIG Negative Ion Source for Classical Cyclotrons Rodrigo Varela (CIEMAT, Spain)



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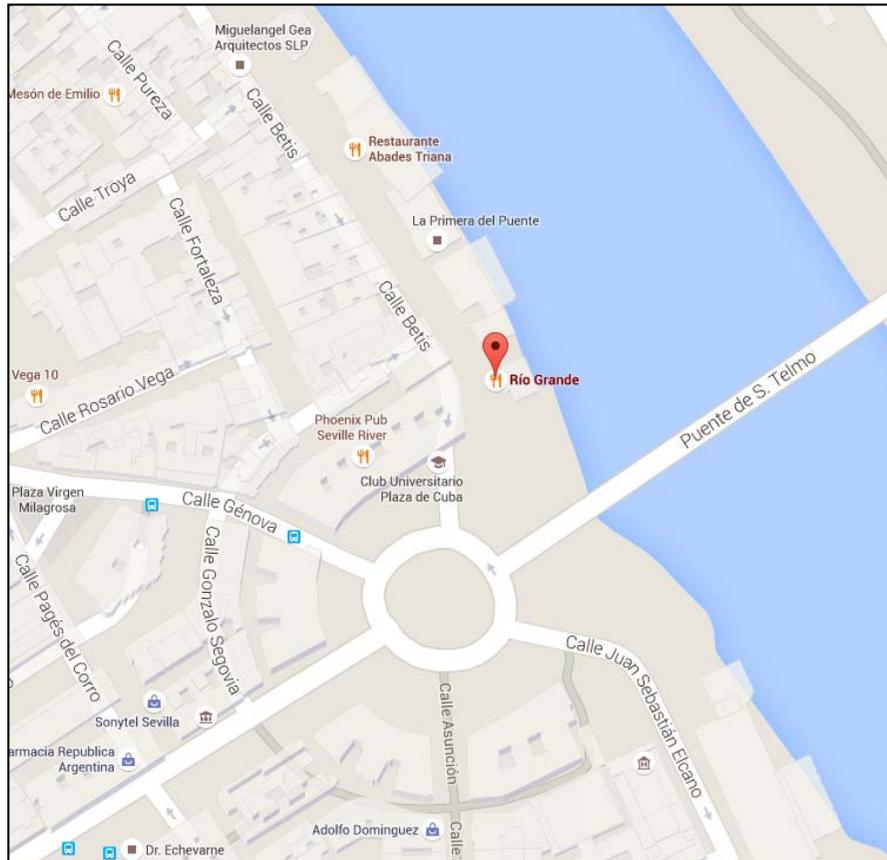


## RECEPTION DINNER

Restaurante Río Grande  
Calle Betis, S/N  
41010 Sevilla  
<http://riogrande-sevilla.com/>



Dress code: smart casual



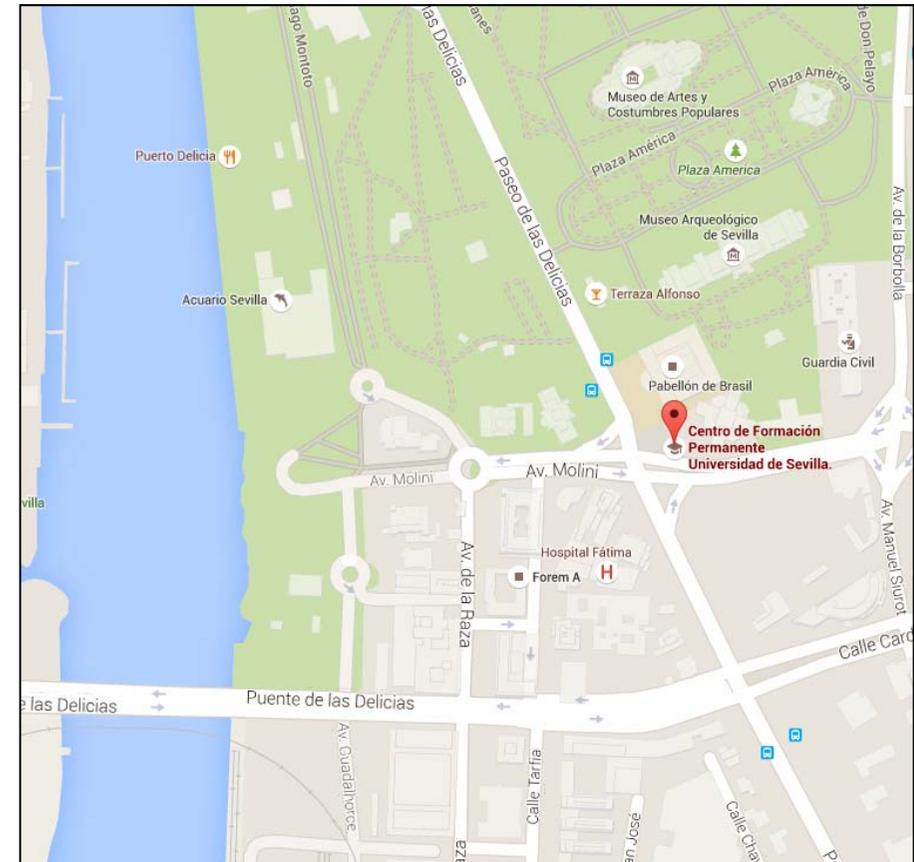
## PUBLIC TALK (\*)

Curando el cáncer con  
aceleradores de partículas  
**Dr. Isabel Gallardo (CNA, Spain)**

Pabellón de México  
Avenida de las Delicias, S/N  
41013 Sevilla



(\*) In Spanish



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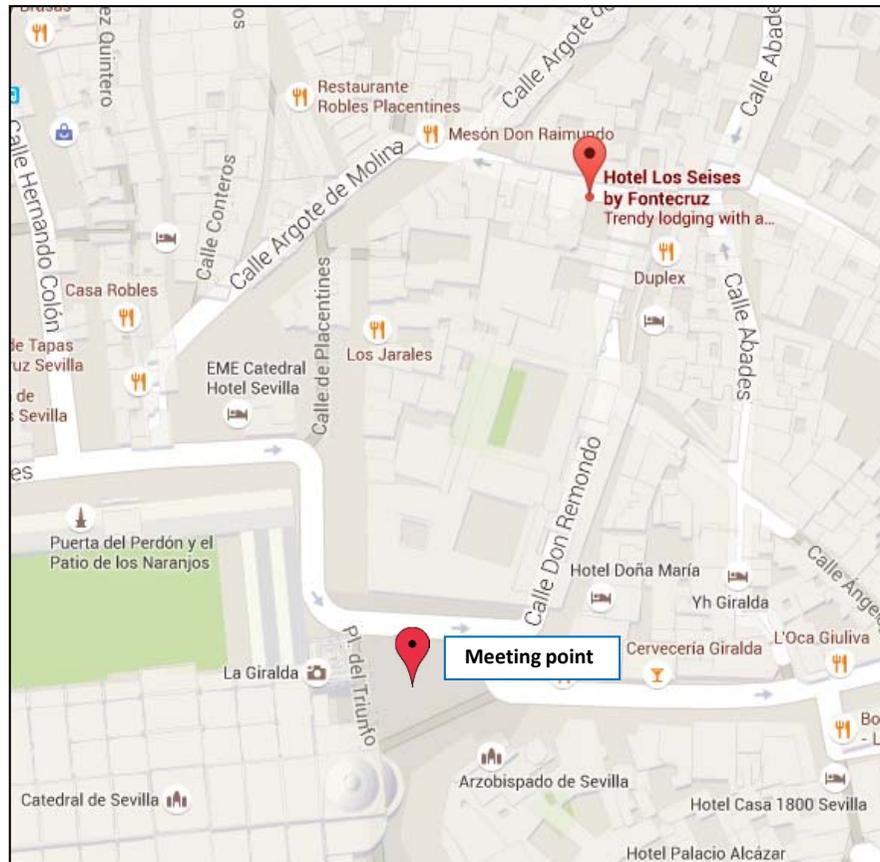


## CONFERENCE DINNER

Hotel Los Seises by Fontecruz  
Calle Segovias, 6  
41004 Sevilla

<http://www.fontecruzhoteles.com/hotel-fontecruz-sevilla-seises/>

Dress code: smart

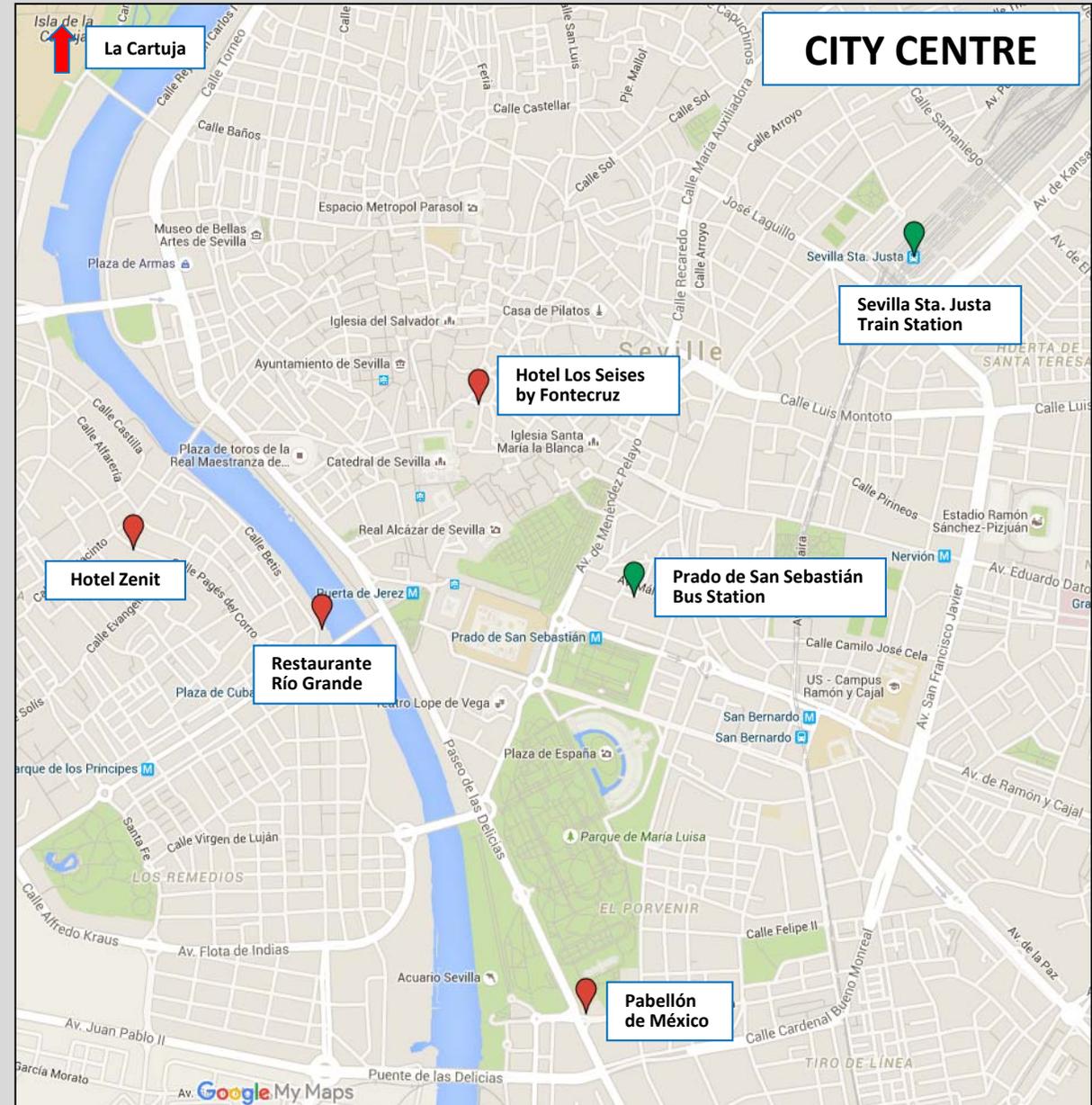
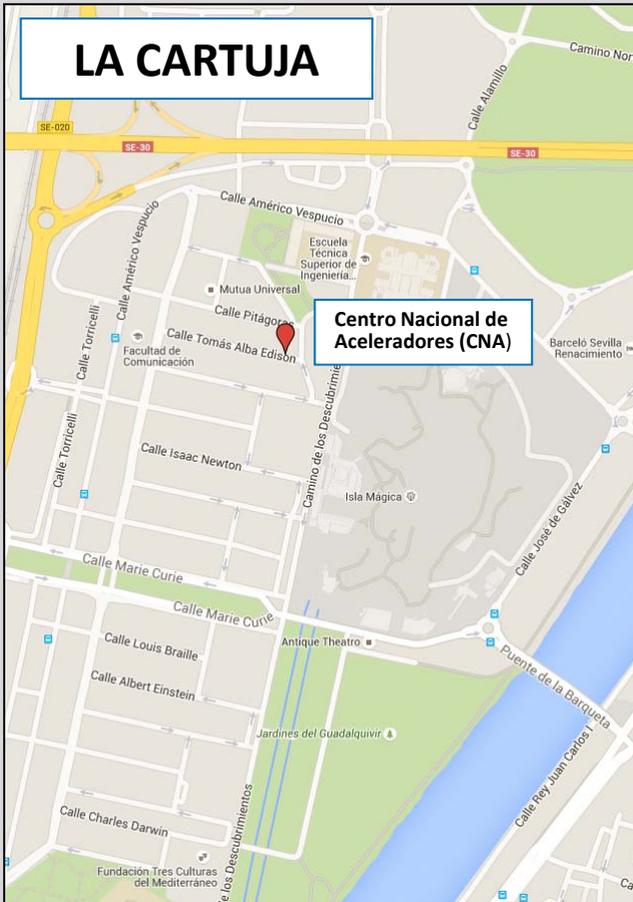


## MEETING POINT

We will meet at the fountain by "La Giralda" (the Cathedral) at **20:15**



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### Emergency numbers

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