

▶ INTERNATIONAL
SEMINAR ON HIGH-SPEED TECHNOLOGIES ON RAILWAY SYSTEMS



WWW.HSTCALIFORNIA.COM

ORGANIZED BY

HOSTED BY



ITS Berkeley
Institute of Transportation Studies

WITH THE
SUPPORT OF



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SPONSOR



CALIFORNIA
High-Speed Rail Authority



CGEWI

SPECIALIZED SEMINAR:

Double nature of the seminar, 4 days of training content on technologies for high-speed rail and a specific application theme for each day

The purpose of this seminar is to promote, a high level knowledge of high-speed railway technologies, for a selection of graduate engineers and specialized professionals, in order to provide and expand a resource base for the development of high-speed rail in California, as well as, bring students into contact with multinational leaders in these technologies

22/23/24/25 MAY 2017



WHERE?



Institute of Transportation Studies
University of California, Berkeley
109 McLaughlin Hall,
Berkeley CA

Intervention of prominent local and international personalities in an exceptional place such as the Berkeley headquarters of the University of California.

The aim of this course is to prepare engineers to achieve the best possible Knowledge, by the hand of international experts in railway technology. And, in this way, to put in practice their profession in these employments under the direction of Antonio Arribas and Eduardo Romo, engineers with over 25 years of experience in designing systems for high-speed railways.

EVENT OVERVIEW

MONDAY

22

HSR-GENERAL OVERVIEW



TUESDAY

23

HSR-BLENDED OPERATION



WEDNESDAY

24

HSR TECHNOLOGIES AND LCC OPTIMIZATION



THURSDAY

25

INTERNATIONAL SUCCESS STORIES



22 MAY 2017

HSR-GENERAL OVERVIEW

Day Director: Laura Melendy

- 08:30 Registration
- 09:30 Welcoming address. Part 1
given by: ALEX BAYEN (UC Berkeley ITS, Director)
- 09:45 Welcoming address. Part 2
given by: ROD DIRIDON (Mineta Transportation Institute Emeritus Executive Director)
- 10:00 Opening: HIGH SPEED RAIL-PLANNING FOR THE NEXT BAY AREA GAME CHANGE
given by: TILLY CHANG (Executive Director, San Francisco County Transportation Authority)
- 10:30 1st Masterclass: CONNECTING AND TRANSFORMING CALIFORNIA
given by: BEN TRIPOUSIS (CHSRA, Northern California Regional Director)
- 11:00 Coffee break
- 11:30 2nd Masterclass: HSR CONCEPT AND EVOLUTION
given by: CHRISTOPHE KESEJEVIC (UIC/ International Railways Association)
- 12:15 3rd Masterclass: A NEW ERA FOR HSR
given by: PETER GERTLER (Former APTA High Speed and Intercity Passenger Rail Committee Chairman)
- 12:30 Lunch time
- 13:30 4th Masterclass: HSR SYSTEMS, DIFFERENT MODELS AROUND THE WORLD
given by: CHRISTOPHE KESEJEVIC (UIC/ International Railways Association)
- 14:00 5th Masterclass: DIRECT AND INDIRECT BENEFITS FROM SPAIN'S HIGH SPEED RAIL DEVELOPMENT. PARALLELISM WITH CALIFORNIA
given by: MANUEL VALLE (Trade Commissioner of Spain/Los Angeles)
- 14:15 6th Masterclass: HSR CHALLENGES
given by: ARMIN KICK (Siemens, Business Development Director)
- 14:30 Coffee Break
- 15:00 7th Masterclass: HSR OPTIMUM SPEED
given by: EDUARDO ROMO (FCH)
- 15:30 8th Masterclass: INTRODUCTION HSR SYSTEMS TECHNOLOGIES
given by: ANTONIO ARRIBAS (EURIF)
- 16:00 End of day

SPONSORS INFORMATION



www.hsr.ca.gov

whole responsible for the first high-speed rail system in the US



www.uic.org

international union of railways



transweb.sjsu.edu

Mineta Transportation Institute



www.apta.com

American Public Transportation Association



www.siemens.com

World leader in products & technological services



www.wsp.com

one of the world's leading engineering professional services consulting firms



www.tpf.eu

leader in engineering services



www.auxitec.es

leader in engineering services



www.rsecorp.com

Multi-disciplinary firm providing professional services mainly to rail transit clients.

23 MAY 2017

HSR-BLENDED OPERATION

Day Director: Eduardo Romo

- 09:00 9th Masterclass: CHARACTERISTICS OF HSR SYSTEMS. PART 1
given by: CHRISTOPHE KESELJEVIC (UIC/ International Railways Association)
- 09:45 10th Masterclass: ALIGNMENT FOR BLENDED LINES
given by: JORGE SANCHEZ (Senior Railway Engineer)
- 10:45 Coffee break
- 11:00 11th Masterclass: INTRODUCTION TO ELECTRIFICATION SYSTEMS
given by: JUAN MIGUEL MAYOR (Senior Railway Engineer)
- 12:00 Lunch time
- 13:00 12th Masterclass: BLENDED OPERATION
given by: JORGE SANCHEZ (Senior Railway Engineer)
- 14:00 13th Masterclass: SAFE SIGNALING SOLUTIONS FOR BLENDED OPERATIONS
given by: FRANK HAMANN (Senior Signaling Engineer)
- 14:45 Coffee break
- 15:00 14th Masterclass: INTRODUCTION FOR HSR SIGNALING DESIGN
given by: JUAN OLMEDILLA (Senior Railway Engineer)
- 16:00 15th Masterclass: TRACK VACANCY DETECTION SYSTEMS FOR HSR
given by: CESAR LOSADA (Senior Railway Engineer)
- 16:45 End of 2nd day

24 MAY 2017

HSR-TECHNOLOGIES AND LCC OPTIMIZATION

Day Director: Antonio Arribas

- 09:00 16th Masterclass: HSR LONG-TERM CONTRACTS(LCC) & OBSOLESCENCE MANAGEMENT
given by: CESAR LOSADA (Senior Railway Engineer)
- 09:30 17th Masterclass: INFRASTRUCTURE, MAIN ELEMENTS INVOLVED IN HSR. PART 1
given by: MANUEL CUADRADO (Senior Railway Engineer)
- 10:15 18th Masterclass: TPS (ELECTRICAL SUBSTATIONS)
given by: STEFFEN GOELLER & RICARDO SANCHEZ (Senior Railway Engineers)
- 11:00 Coffee break
- 11:15 19th Masterclass: HSR DETECTION SYSTEMS
given by: JUAN OLMEDILLA (Senior Railway Engineer)
- 12:15 Lunch time
- 13:15 20th Masterclass: CATENARY ENGINEERING & INSTALLATION WORKS. PART 1
given by: STEFFEN GOELLER & RICARDO SANCHEZ (Senior Railway Engineers)
- 14:15 21th Masterclass: TELECOM NETWORKS FOR HSR
given by: JUAN OLMEDILLA (Senior Railway Engineer)
- 15:15 Coffee break
- 15:30 22th Masterclass: CATENARY ENGINEERING & INSTALLATION WORKS. PART 2
given by: STEFFEN GOELLER & RICARDO SANCHEZ (Senior Railway Engineers)
- 16:15 23th Masterclass: ELECTRICAL AND ELECTROMAGNETIC DISTURBANCES
given by: JUAN MIGUEL MAYOR (Senior Railway Engineer)
- 16:30 24th Masterclass: INFRASTRUCTURE, MAIN ELEMENTS INVOLVED IN HSR. PART 2
given by: MANUEL CUADRADO (Senior Railway Engineer)
- 17:15 End of 3rd day

25 MAY 2017

HSR- INTERNATIONAL SUCCESS STORIES

Day Director: Laura Melendy

- 09:00 Success story: GUADARRAMA TUNNEL (2x28 km)
given by: Gefinsa-Euroestudios
- 09:30 25th Masterclass: INFRASTRUCTURE, MAIN ELEMENTS INVOLVED IN HSR. PART 3
given by: MANUEL CUADRADO (Senior Railway Engineer)
- 10:15 26th Masterclass: THE CONCEPT OF MAINTENANCE IN HSR SYSTEM
given by: JUAN OLMEDILLA (Senior Railway Engineer)
- 11:00 Coffee break
- 11:15 27th Masterclass: TRAIN PROTECTION: ERTMS SYSTEM
given by: JUAN OLMEDILLA (Senior Railway Engineer)
- 12:00 Lunch time
- 13:00 Success story: STAFF PROTECTION ON HSR LINES
given by: AUXITEC
- 13:45 Success story: CATENARY RAILWAY ELECTRIFICATION SIEMENS
given by: STEFFEN GOELLER & RICARDO SANCHEZ (Siemens Senior Railway Engineers)
- 14:15 Success story : SIGNALING AND INTEROPERABILITY IN THE SPANISH HIGH SPEED NETWORK
given by: CESAR LOSADA (Siemens Senior Railway Engineer)
- 15:00 Coffee break
- 15:15 TRACK FOR HSR summary
given by: EDUARDO ROMO URROZ (FCH President)
- 15:30 INSTALLATION summary
given by: ANTONIO ARRIBAS (Eurif President)
- 15:45 Overall Summary
given by: LAURA MELENDY (Institute of Transportation Studies)
- 16:00 Seminar Certificate Delivery
- 16:15 End of 4th day



-Former APTIA High Speed and Intercity Passenger Rail Committee Chairman

-Senior Vice President at HNTB

-Transportation and Infrastructure Business leader

Peter Gentler



-Civil engineer, member of the Technological Committee of the Fundación Caminos de Hierro for the promotion of Railway Research

-Participant in the main High-Speed lines of Spain, and in European High Speed Line projects (Portugal, Turkey)

Manuel Cuadrado



-Christophe handles the position of Senior Adviser of the Strategy & Corporate Governance Department of RFF.

-He represents RFF in various institutions, including the High Speed Scientific Committee of UIC.

Christophe Keseljevic



-Senior Installation engineer with 20 years of experience in railway systems

-Participant in railway lines design & Construction as well as safety facilities in Tunnels in Spain and abroad

Juan Miguel Mayor



-Physicist graduate with 27 year experience in Communication and Railways industries. Software development for voice&data transmission equipment.

-Last 10 years in Railways industry involved in Detection systems, Quality, Safety & Maintenance areas.

Juan Olmedilla



-Siemens Director Business Development America, Signaling Mainline

-With more than 20 years of experience in the Signaling Railway Sector

Frank Hammann



-Senior railway engineer with over 20 years experience

-Expert in planview and line profile alignment and tools to integrate geometrical alignment and operational performance

Jorge Sanchez



-Siemens Bid Director California High Speed Rail Infrastructure Project Customer Services

-Ph. D. Master Civil Engineer

-Senior Signaling Railway Engineer

Cesar Losada



-Siemens Vice President

-Senior Electrification Railway Engineer

-Master's degree, Electrical and Electronics Engineering

Steffen Goeller



-Siemens Mobility TPE (TurnKey Projects & Electrification)

-More than 20 years of experience in the Electrification Railway Sector

Ricardo Sanchez



ORGANIZER'S INFORMATION

EURIF (EUROPEAN RAILWAY INSTITUTE)
www.eurif.com

Association of engineers and architects for the promotion and dissemination of railway technologies. Becoming a tool for the support of the European engineering outside Europe.
EURIF is a Private non-profit organization, improving technological sector of the railways in Europe

FCH (FUNDACIÓN CAMINOS DE HIERRO)
www.fcaminoshierro.com

FCH is a non-profit making organization dedicated to research into the field of engineering and railway technology in general.
Providing solutions for the development of transport systems through the consultancy services. FCH is an Affiliate Member of the UIC and APTA.

-Senior installation engineer with over 25 years experience

-Researcher and senior consultant for transport sector & IRSE fellow

-Participant in all high-speed lines in Spain. Ankar-Istanbul & Mecca-Medinah

Antonio Arribas



-International expert in High Speed railway systems. He has carried out about one hundred infrastructure, track, equipment, stations & facilities designs in Pakistan, Malaysia, Portugal, China, India, Turkey, US.

-He has organized & taken part in congresses, seminars and international courses on railways technics

Eduardo Romo



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