



INTERNATIONAL SEMINAR ON HIGH-SPEED TECHNOLOGIES ON RAILWAY SYSTEMS

www.HSTCalifornia.com

REGISTRATION DEADLINE
March, 13th 2016

BAKERSFIELD, CALIFORNIA



WHEN?

during the days 21,
22, 23 & 24 OF
MARCH

WHERE?

The seminar will take
place at California
State University in
Bakersfield



WHY?

The purpose of this seminar is to promote, a high level of knowledge of high-speed railway technologies, for a selection of senior students, 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, to bring students into contact with multinational leaders in these technologies

HOW?

engineers interested in this seminar, please check the application mode on the additional information page at the end of this catalog

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in the dissemination of this seminar

HOSTED BY :



ORGANIZED BY :



MARCH 2016

EVENT OVERVIEW

21	Opening session and introduction to High Speed Railway systems	22	Master-class: infrastructure and track alignment	23	Master-class: track and Electrification	24	Master-class: Electrification, Signaling and Closing Ceremony
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OPENING SESSION & INTRODUCTION TO HIGH SPEED RAILWAY SYSTEMS

Monday, March 21, 2016

Day Director: Rod Diridon

08:30 Registration

08:50

- California State University, Bakersfield

given by: Dr. HORACE MITCHELL, President

- CSUB, Extended University

given by: JENNIFER PATINO, Director, Professional Development

- City of Bakersfield

given by: HONORABLE HARVEY L. HALL, Mayor

- Kern Economic Development Corporation

given by: RICHARD CHAPMAN, President / CEO

- CSU Fresno

given by: PROFESSOR JESUS LARRALDE

- American Public Transport Association

given by: PETER GERTLER, Chairman HS&IPR Committee

09:45

Keynote Speech

given by: DIANA GOMEZ, CHSRA Regional Director

10:15

INTRODUCTION TO HSR SYSTEMS I

given by: CHRISTOPHE KESEJEVIC

11:00

Coffee break

11:30

PANEL OF HSR EXPERTS

- ROD DIRIDON, Mineta Transportation Institute Emeritus Director

- ROBERT(BOB) BALL, P.E. Parsons Brinckerhoff

- MARK HILL, Director Business Development Alstom

- ARMIN KICK, Director Business Development High Speed Rail Siemens Industry Inc

- KEVIN F. GARBEN, Director Business Development Thales USA

- RAMÓN C. GONZALEZ, Marketing Manager Euroestudios

12:30

Lunch time

13:30

INTRODUCTION TO HSR SYSTEMS II

given by: CHRISTOPHE KESEJEVIC

15:00

HSR AN INTEGRATED SYSTEM / MAJOR INFRASTRUCTURES FINANCIAL MODELS

given by: Eduardo Romo, Fernando de Marcos FCH

15:30

SIGNALING & ENERGY SYSTEM CONCEPTS

given by: Antonio Arribas, Juan Olmedilla and Juan Miguel Mayor, EURIF

16:00

End of 1st day



INFRASTRUCTURE & TRACK ALIGNMENT

Tuesday, March 22, 2016

Day Director: Eduardo Romo

09:00 BASIC CONCEPT FOR ALIGNMENT OF HIGH SPEED LINES

given by: JORGE SANCHEZ

10:00 INFRASTRUCTURE, MAIN ELEMENTS INVOLVED IN HIGH-SPEED LINES

given by: MANUEL CUADRADO

10:45 Coffee break

11:00 KEY COMPONENTS TO BE TAKEN INTO ACCOUNT FOR HS LINES
STRUCTURES

given by: MANUEL CUADRADO

12:00 Lunch time

12:45 INTRODUCTION TO HSR SYSTEMS III

given by: CHRISTOPHE KESELJEVIC

14:15 KEY ELEMENTS TO BE CONSIDERED IN THE PLANVIEW AND LINE PROFILE ALIGNMENT

given by: JORGE SANCHEZ

15:15 ELECTRIFICATION I

given by: JUAN MIGUEL MAYOR

16:15 End of 2nd day



TRACK & ELECTRIFICATION

Wednesday, March 23, 2016

Day Director: Antonio Arribas

09:00 MODERN TOOLS TO INTEGRATE GEOMETRICAL ALIGNMENT AND OPERATIONAL PERFORMANCE

given by: JORGE SÁNCHEZ

10:00 MAIN CONCEPTS RELATED TO HIGH QUALITY TRACK

given by: MANUEL CUADRADO and INGO PAUKNER

11:00 Coffee break

11:15 SAFETY IN TUNNELS I

given by: JUAN MIGUEL MAYOR

11:45 ELECTRIFICATION II

given by: JUAN MIGUEL MAYOR

12:15 Lunch time

13:00 SIGNALING CONCEPTS

given by: JUAN OLMEDILLA

13:45 MODERN TRACK FORMS FOR EFFICIENT HIGH SPEED LINES

given by: MANUEL CUADRADO

14:45 ELECTRIFICATION III

given by: JUAN MIGUEL MAYOR

16:15 End of 3rd day



ELECTRIFICATION/ SIGNALING & SPECIFIC TECHNOLOGIES

Thursday, March 24, 2016

Day Director: Eduardo Romo

09:00

DETECTION SYSTEMS
given by: JUAN OLMEDILLA

10:15

Coffee break

10:30

ELECTRIFICATION IV
given by: BRETT THARP & KAY RASCH

11:30

ERTMS SYSTEM & SAFETY PHILOSOPHY
given by: JUAN OLMEDILLA

12:15

Lunch time

12:45

TELECOM NETWORKS
given by: JUAN OLMEDILLA

13:45

MAINTENANCE LABOURS & STAFF PROTECTION
given by: JUAN OLMEDILLA

14:15

Closing Speech
given by: TERRY OGLE, CHSRA Director of Design and Construction

14:45

End of 4th day



EXCLUSIVE PRESENTATION BY LEADING SENIOR ENGINEERS



-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 & Meca-Medinah

Antonio Arribas



-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



- Siemens Professional Mechanical Engineer, responsible for contact line solutions for the North America market.

- Brett's career is focused on developing, integrating, and delivering high quality systems to advance the industry.

Brett Tharp



-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 Professional Engineer, currently Project Manager in the Highway Southern California.

- He has been Supervisor of some of the most importants high-speed railway lines such as Madrid-Sevilla & some of the most importants metro lines

Kay Rasch



-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 Sánchez



-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



SIEMENSwww.siemens.com

Their products are found in most high-speed lines (in operation and future) of the world. Strong presence in the US with an important railway equipment factory in Sacramento

www.hsr.ca.gov

The California High-Speed Rail Authority (Authority) is responsible for planning, designing, building and operation of the first high-speed rail system in the nation. California.

www.gorail.eu

Leading global Railway company providing engineering, consulting, technical assistance and development of railway projects using proven technologies and leading edge practices.

ALSTOMwww.alstom.com

World leader in integrated railway systems. Alstom develops and markets systems, equipment and services for the railway sector.

www.apta.com

APTA is the leading force in advancing public transportation. APTA members are public organizations that are engaged in the areas of bus, commuter rail, subways, high-speed rail...

www.rsecorp.com

RSE is a multi-disciplinary firm providing professional services mainly to rail transit clients. RSE is a minority owned Disadvantage Business Entity (DBE) with the California Unified Certification Program (CUCP).

THALESwww.thalesgroup.com

World leader in transport automation. In addition to high-speed european systems, they have developed the CBTZ & LZB systems for driverless subways

www.uic.org

the worldwide professional association representing the railway sector and promoting rail transport. UIC leads an innovative and dynamic sector, helping Members find success and opportunities

www.euroestudios.es

Civil engineering and building development consulting company, leader in Spain, that provides services of Planning, Feasibility Studies, Preliminary and Detailed Designs Studies, Site & project Management.

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One of the world's leading engineering professional services consulting firms. We provide services to transform the built environment and restore the natural environment

transweb.sjsu.edu

The Mineta Transportation Institute (MTI) conducts research, education programs, and information and technology transfer, focusing on multimodal surface transportation policy and management issues.

AUXITECwww.auxitec.es

Auxitec is an International company established in 1992 whose main activity is to provide engineering services to transport infrastructures, facilities and telecommunications.

HOST & ORGANIZERS



EUROPEAN RAILWAY INSTITUTE

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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

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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.

CALIFORNIA STATE UNIVERSITY BAKERSFIELD

www.csub.edu

Located in the southern San Joaquin Valley, California State University, Bakersfield is a continuously growing comprehensive regional university that is committed to transforming the lives of its students and community through its established excellence in academia, diversity, service, and community engagement since its founding in 1965. The faculty across the Western Association of Schools and Colleges (WASC) fully accredited University is world-class, with nearly 75% holding terminal degrees in their respective fields.

SPONSORS INFORMATION

ADDITIONAL INFORMATION



How to participate in this PAPERLESS seminar?

There are 3 ways to get into this seminar:

1- the first one is to send an email to albaarribas@eurif.com, mariana@fundacioncdh.com and jpatino@csusb.edu, asking for to participate in the HST seminar and including your contact address and your curriculum vitae (if you are currently working, mention it in the email), before the deadline. Then, the registration will be processed on a first-come-first served basis, so send your CV as soon as possible. We have a minimum of 10 grants for engineers or senior students who will not have to pay any type of registration fee; therefore, this seminar will be completely free for them.

2- If you have sent an email to the above email-addresses, and you have not been selected, the organization will send your CV to the different sponsors. Each sponsor has grants to distribute with their own requirements.

3-If you are unable to get a grant and you want to participate in this seminar you could pay it by your own (established on 2600\$), by sending an application via email to albaarribas@eurif.com and mariana@fundacioncdh.com. They will, then, answer with more information about how to make the registration application.

Certificates

During the closing ceremony of the seminar, each student will receive a certificate of participation that recognizes the course content and their successful completion.

Lunch time

Throughout this seminar Lunch is included on Monday only.
Beverage service will be included during the whole seminar

** participation in this seminar does not guarantee any job by the sponsors or organizers

** Sponsors reserve the right to provide reduced versions of their presentations to participants



*Imagine your world in
High speed...*

Brochure design: Alba Arribas, Architect
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