

CALIFORNIA
Bakersfield



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.

**PARSONS
BRINCKERHOFF**www.pbworld.com

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
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

FUNDACIÓN CAMINOS DE HIERRO
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.

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



ORGANIZERS

EDUARDO ROMO & ANTONIO ARRIBAS





WELCOMING

J. LARRALDE, E. ROMO, J. PATINO, A. ARRIBAS





INTRODUCTION

EDUARDO ROMO, FCH, President

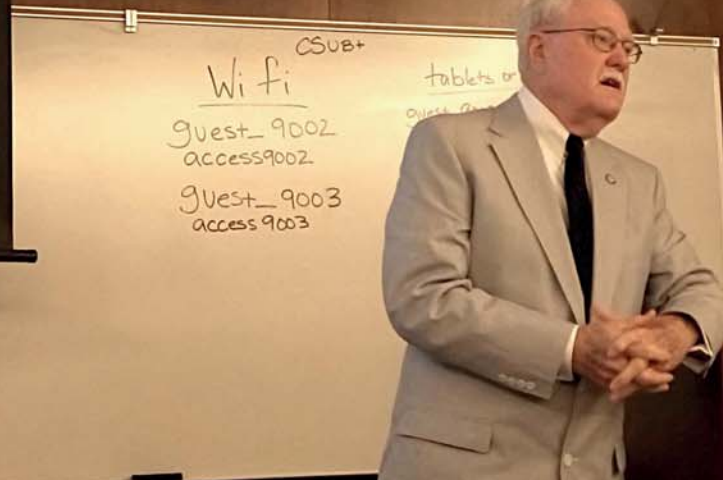




WELCOMING SPEECH

Dr. HORACE MITCHELL, California State University Bakersfield, President

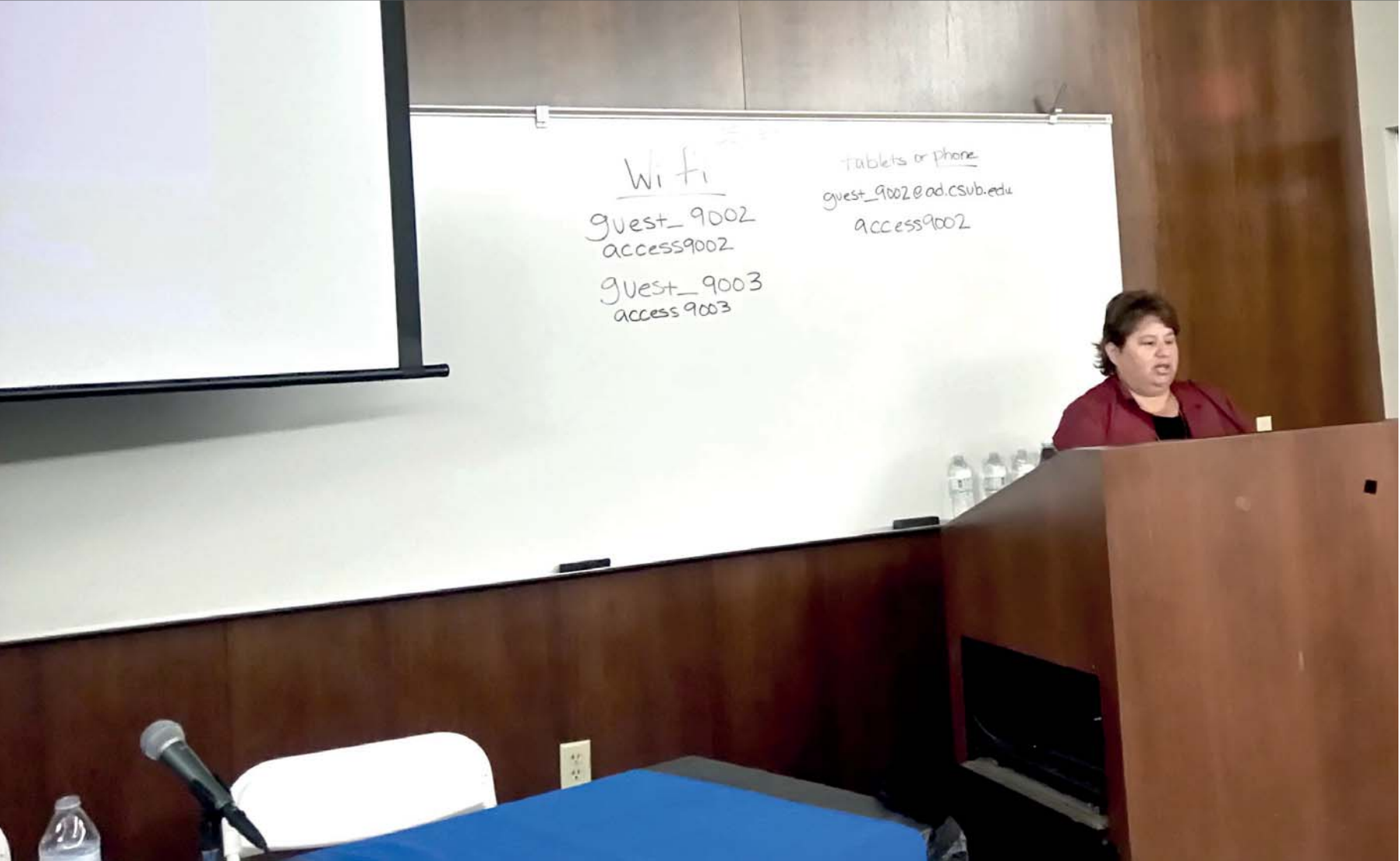




WELCOMING SPEECH

HONORABLE HARVEY L. HALL, City of Bakersfield, Mayor





KEYNOTE SPEECH

DIANA GÓMEZ, CHSRA, Central Valley Regional Director





PANEL OF HSR EXPERTS

ROD DIRIDON, Mineta Transportation Institute, Emeritus Executive Director

Discussion Panel: Robert Ball / PB ; Kevin F. Garben/ Thales ; Mark Hill / Alstom ; Armin Kick / Siemens ; Ramón C. González/Euroestudios



THE TAIWAN HIGH SPEED RAIL (HSR) PROJECT



CSU
Wifi
Guest-9002
AccessPool
Guest-9003
AccessPool
Tablets or Phone
Guest-9002/9003/CSU
AccessPool

CALIFORNIA STATE
UNIVERSITY

PANEL OF HSR EXPERTS

ROBERT BALL, Parsons Brinckerhoff P.E, Vice-President/ Deputy Director Engineering and Construction Rail Delivery Partner. California High-Speed Rail Program



THALES
Ground
transportation solutions
ever safety and security matter, we deliver



CSU+
Wi-Fi
Guest-9002
Access 9002
Guest-9003
Access 9003
tablets or phone
Guest-9002 and CSU+
Access 9002

PANEL OF HSR EXPERTS

RAMÓN C. GONZÁLEZ, Euroestudios, Marketing Manager





HIGH SPEED RAILWAY INTRODUCTION

CHRISTOPHE KESELJEVIC, UIC, Railway Advisor





CSUB+

Wi fi

guest_9002
access9002

guest_9003
access9003

tablets or phone

guest_9002@ad.csub.edu
access9002

SIGNALING & ENERGY SYSTEMS CONCEPTS

ANTONIO ARRIBAS, EURIF, President





BASIC CONCEPTS FOR ALIGNMENT OF HS LINES

JORGE SANCHEZ, FCH Professor

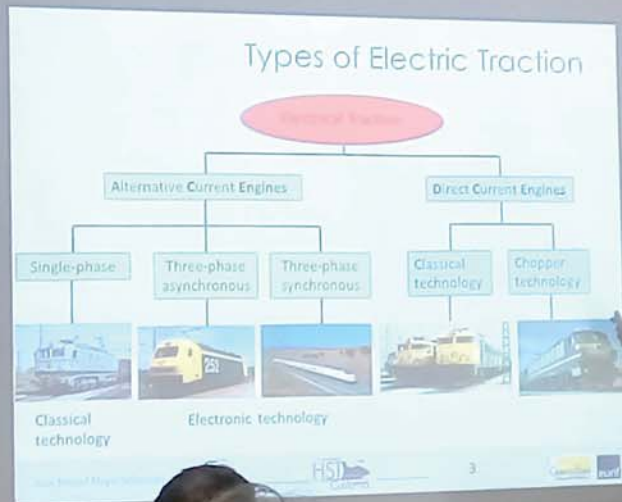




KEY COMPONENTS FOR HS LINES STRUCTURES

MANUEL CUADRADO, FCH Professor





SAFETY IN TUNNELS

JUAN MIGUEL MAYOR, EURIF Professor

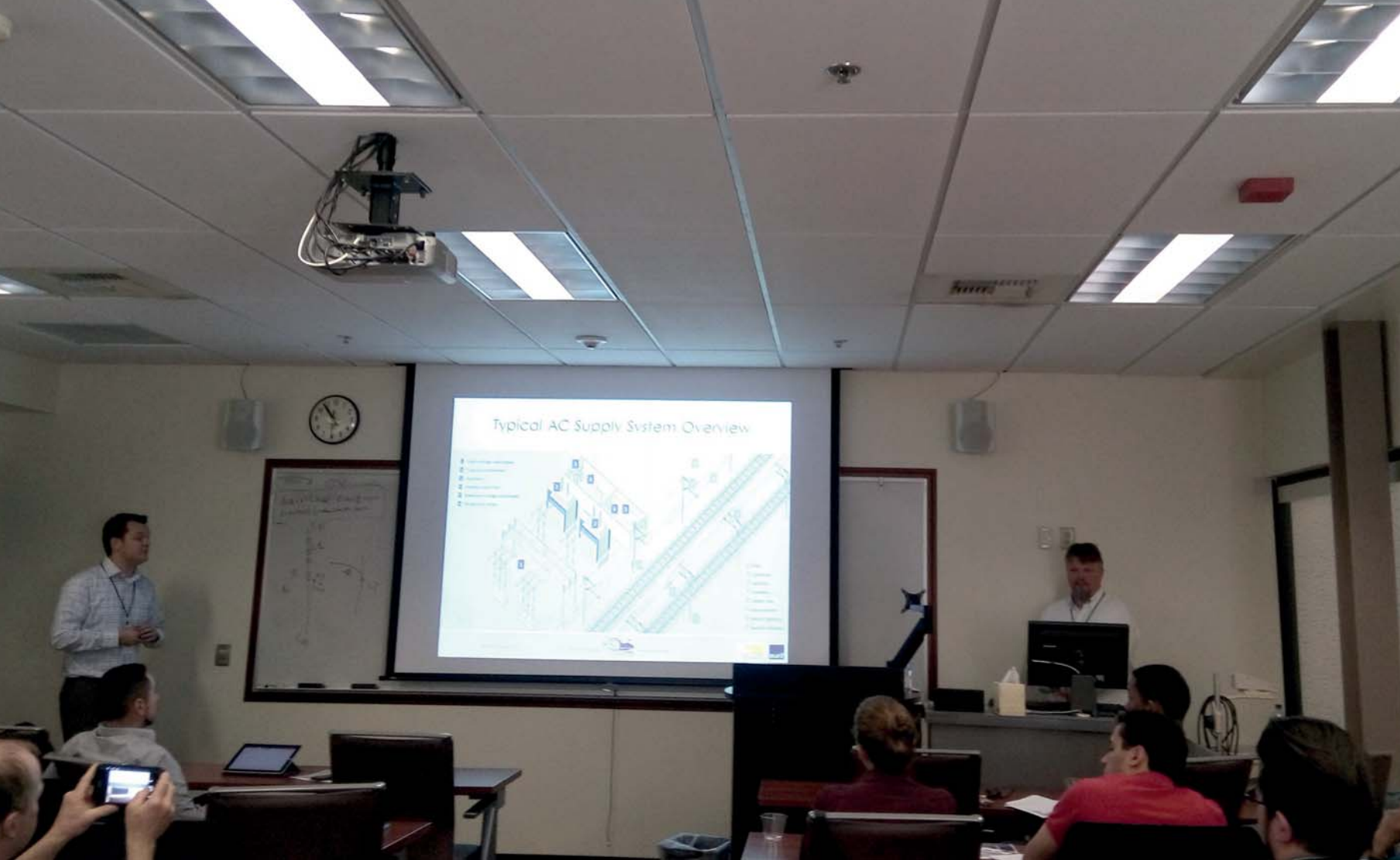




SIGNALING CONCEPTS

JUAN OLMEDILLA, EURIF Professor





ELECTRIFICATION

BRETT THARP & KAY RASCH, SIEMENS Professors





SPEAKERS & ORGANIZERS

R. C. GONZÁLEZ, E. ROMO, J. OLMEDILLA, A. ARRIBAS, J. PATINO, J. SANCHEZ, J. M. MAYOR,
M. CUADRADO





CLOSING SPEECH

TERRY OGLE, CHSRA, Director of Design and Construction





GROUP PICTURE

