

**V Encuentro UPR/MIT sobre el Tren Urbano
7-15 de enero de 1999**

**5th UPR/MIT Conference on Tren Urbano
January 7 - 15, 1999**

Jueves, 7 de enero de 1999		Thursday, January 7, 1999
Coordinador	Dr. Antonio A. González	Coordinator
Registro	8:30 - 9:00	Registration
Bienvenida e introducción al V Encuentro UPR/MIT Tren Urbano Dr. Antonio A. González UPR/Mayagüez y Sra. Lydia E. Mercado, Oficina del Tren Urbano	9:00-10:00	Welcome and Introduction to the 5 th UPR/MIT Conference on Tren Urbano Dr. Antonio A. González, UPR/Mayagüez Ms. Lydia E. Mercado, Tren Urbano Office
Receso	10:00-10:30	Break
Retrato organizativo de la oficina del Tren Urbano Sr. Randy Altshuler, Director de Operaciones, Oficina del Tren Urbano	10:30 -11:30	Organizational Portrait of the Tren Urbano Office Mr. Randy Altshuler, Operations Director, Tren Urbano Office
Estatus del proyecto Sr. Chris Dixon, Director de Implementación, Oficina del Tren Urbano	11:30-12:30	Project Status Mr. Chris Dixon, Implementation Director, Tren Urbano Office
Almuerzo	12:30-1:30	Lunch
El financiamiento del proyecto del Tren Urbano Dr. Carlos Colón de Armas, Sub-Director Ejecutivo, Autoridad de Carreteras y Transportación de Puerto Rico	2:00-3:00	Financing of Tren Urbano Project Dr. Carlos Colón de Armas, Deputy Executive Director, Puerto Rico Highway & Transportation Authority
Receso	3:00-3:30	Break
La visión del secretario Dr. Carlos I. Pesquera, Secretario, Departamento de Transportación y Obras Públicas de Puerto Rico	3:30-5:00	The Secretary's Vision Dr. Carlos I. Pesquera, Secretary, Puerto Rico Department of Transportation and Public Works

Note to faculty: Please gather for meeting at 7:00 PM at designated location to be announced.

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Viernes, 8 de enero de 1999		Friday, January 8, 1999
Coordinador	Dr. Felipe Luyanda	Coordinator
Introducción a presentaciones de sistemas de trenes internacionales Dr. Felipe Luyanda, UPR/Mayagüez	9:00 – 9:15	Introduction to presentations on international rapid transit systems Dr. Felipe Luyanda, UPR/Mayagüez
Experiencias en Venezuela - Caracas Arq. Raymundo Mussa, Gerente de Proyectos, Metro de Caracas Arq. David Gouverneur, Profesor, Universidad Metropolitana, Caracas	9:15-11:15	Experiences in Venezuela – Caracas Arch. Raymundo Mussa, Project Manager, Caracas Metro Arch. David Gouverneur, Professor, Metropolitan University, Caracas
Receso	11:15-11:45	Break
Experiencias en Brazil – Sao Paolo Dr. Claudio de Senna Frederico, Ministro de Transporte, Estado de Sao Paolo, Brazil	11:45-12:45	Experiences in Brazil – Sao Paolo Dr. Claudio de Senna Frederico, Transportation Minister, State of Sao Paolo, Brazil
Almuerzo	12:45-1:30	Lunch
Apertura Exhibición de Posters & 1era sesión de posters <i>(ver itinerario aparte para los posters del día)</i>	1:30-2:30	Opening of Poster Exhibit and 1st poster session <i>(see separate schedule for featured posters)</i>
Experiencias en Colombia – Medellín Dr. Jorge Mario Gómez García, Gerente de Planeación y Desarrollo, Metro de Medellín	2:30-3:30	Experiences in Colombia - Medellín Dr. Jorge Mario Gómez García, Manager of Planning and Development, Medellín Metro
Receso	3:30-4:00	Break
Experiencias en Colombia – Medellín 2da parte	4:00-5:00	Experiences in Colombia – Medellín Part 2
Cena de Bienvenida Cuartel de Ballajá, Viejo San Juan Presentación de arquitectura caribeña, Arq. Esteban Sennyey, Profesor de arquitectura, UPR/Río Piedras	7:30–10:00	Welcome Dinner Cuartel de Ballajá, Old San Juan Presentation on Caribbean Architecture, Arch. Esteban Sennyey, Architecture Professor, UPR/Río Piedras

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Saturday, 9 de enero de 1999

Coordinador

Actividades Recreativas Opcionales

Opción #1: Bosque Húmedo Nacional El Yunque y Playa de Luquillo

Costo: \$1.50 admisión al Yunque, \$2 por persona por uso de lockers, etc. (opcional).

Almuerzo en camino por su propia cuenta.

Vestimenta: Ropa sport, Toalla, traje de baño y protección solar.

Horario: Salida a las 8:00 AM del hotel, llegada al Yunque a las 10 AM, visita al Yunque hasta alrededor de la 1 PM, almuerzo en camino a la playa, llegada a la playa alrededor de las 2 PM, regreso a San Juan alrededor de las 6 PM.

Transportación: En guagua desde el hotel.

Tamaño del grupo: 25

Opción #2: Katamarán, snorkeling y playa de Luquillo

Costo: \$45 por katamarán, incluye desayuno y equipo. Uso lockers en

Luquillo \$2 (opcional), costo del almuerzo variará de acuerdo a la selección y apetito.

Vestimenta: Ropa sport, traje de baño, toalla, protección solar.

Horario: Salida del hotel a las 7 AM, llegada a Fajardo a las 8 AM, llegada a Luquillo alrededor de las 2 PM, regreso a San Juan alrededor de las 6 PM.

Transportación: En guagua desde el hotel.

Tamaño del grupo: 48

Domingo, 10 de enero de 1999

Día libre

Los estudiantes de MIT pueden consultar con los estudiantes de la UPR en cuanto a lugares, actividades o pasatiempos. Favor de referirse a la información turística distribuida al comienzo del encuentro.

Dr. Iván Baigés

All day

Saturday, January 9, 1999

Coordinator

Optional Recreational Activities

Option #1: El Yunque National Rain Forest and Luquillo Beach

Cost: \$1.50 per person admission to the rain forest, \$2 per person bath house charge at Luquillo Beach (optional). Lunch on your own along the way.

Attire: Bring towel, bathing suit & sun screen.

Time: Leave at 8:00 AM, arrive at El Yunque around 10, tour rain forest until about 1 PM, lunch en route to Luquillo, arrive Luquillo beach by 2:00, return to San Juan by 6 PM

Transportation: By bus from hotel.

Group size: 25

Option #2: Catamaran & snorkeling & Luquillo Beach

Cost: \$45, includes breakfast buffet & beverages and snorkeling equipment.

Bathhouse privileges at Luquillo (optional) - \$2. Lunch cost will vary depending on selection and appetite.

Attire: Bring towel, bathing suit & sun screen.

Time: Leave hotel by 7:00 AM, arrive at Fajardo by 8 AM, sail, snorkel until about 12:00 PM, arrive at Luquillo Beach at 2:00, return to San Juan around 6 PM

Transportation: By bus from hotel

Group size: 48

Sunday, January 10, 1999

Free day

MIT students may want to consult with UPR students regarding sites, activities or outings. Please refer to the tourism information distributed in the packers at the beginning of the conference.

All day

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Lunes, 11 de enero de 1999 Coordinador	Dr. Iván Baigés	Monday, January 11, 1999 Coordinator
Sistemas de Transporte en Europa Dr. John Pucher, Profesor de Planificación Urbana, Rutgers University	9:00 – 10:30	Transit Systems in Europe Dr. John Pucher, Professor of Urban Planning, Rutgers University
Receso	10:30-11:00	Break
Experiencias en España - Valencia Ing. Julio Gil Roda, Gerente de Proyectos Metro de Valencia	11:00-12:30	Experiences in Spain – Valencia Eng. Julio Gil Roda, Project Manager, Valencia Metro
Almuerzo	12:30-1:30	Lunch
2^{da} sesión de posters <i>(ver itinerario aparte para los posters del día)</i>	1:30-2:30	2nd Poster Session <i>(see separate schedule for featured posters)</i>
Análisis de la Ciudad de San Juan Prof. Esteban Sennyey, Escuela de Arquitectura de la UPR	2:30-3:30	Analysis of the City of San Juan Prof. Esteban Sennyey, UPR School of Architecture
Receso	3:30-4:00	Break
Desarrollo urbano del área metropolitana de San Juan Dr. Aníbal Sepúlveda, Escuela Graduada de Planificación, UPR	4:00-5:00	Urban Development of the San Juan Metropolitan Area Dr. Aníbal Sepúlveda UPR Graduate School of Planning

Please remember to wear boots and long pants for the construction site tour tomorrow.

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Martes, 12 de enero de 1999 Coordinador	Prof. José Pérez Berenguer	Tuesday, January 12, 1999 Coordinator
Presentación sobre el diseño y la construcción del túnel y las estaciones de Río Piedras Ingenieros de Kiewit/Kenny/Zachry	9:00 - 10:00	Presentation on the design and construction of the tunnel and stations in Río Piedras Engineers from Kiewit/Kenny/Zachry
Receso	10:00-10:30	Break
Visita a la obra de construcción en Río Piedras <i>(traslado en las vanes)</i>	10:30-12:30	Site Tour of Río Piedras Construction <i>(transfer in vans)</i>
Almuerzo	12:30-1:30	Lunch
Presentación sobre los programas en las universidades de Boston y Northeastern Profs. Bill Anderson y Peter Furth	1:30 - 2:00	Presentation on Boston University & Northeastern University Programs Profs. Bill Anderson & Peter Furth
3^{ra} sesión de posters <i>(ver itinerario aparte para los posters del día)</i>	2:00-3:00	3rd Poster Session <i>(see separate schedule for featured posters)</i>
Consulta con profesionales del Tren Urbano Facilitadora: Lydia E. Mercado <i>(refrigerios disponibles a partir de las 3:30 PM)</i>	3:00 - 5:00	Consultation with Tren Urbano Professionals Facilitator: Lydia E. Mercado <i>(break snacks available after 3:30 PM)</i>

Please remember to wear boots and long pants for the site tour of the Río Piedras construction area today and tomorrow for the site tour of Martínez Nadal.

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Miércoles, 13 de enero de 1999 Coordinadora	Dr. Sonia Bartolomei	Wednesday, January 13, 1999 Coordinator
Presentación estilo panel sobre la construcción del Tren Urbano Ingenieros de ACT Diana I. González, Bayamón Ivette Maldonado, Villa Nevárez Luis Felipe Cruz, Hato Rey Orlando Hernández, Hato Rey	9:00 – 10:00	Panel Presentation on Tren Urbano Construction HTA Engineers Diana I. González, Bayamón Ivette Maldonado, Villa Nevárez Luis Felipe Cruz, Hato Rey Orlando Hernández, Hato Rey
Receso	10:00-10:30	Break
Visita a la alineación desde Villa Nevárez hasta Bayamón con una parada en Martínez Nadal <i>(Recoger capacete y chaleco de seguridad antes de abordar las guaguas.)</i>	10:30-12:30	Site Tour of the Alignment from Villa Nevárez to Bayamón stopping at Martínez Nadal <i>(Pick up hard-hats & safety vests prior to boarding buses.)</i>
Almuerzo <i>(Se proveerán almuerzos en cajitas en la Plaza de Recreo de Bayamón. Entregar los capacetes y chalecos de seguridad en el área de almuerzo.)</i>	12:30-1:30	Lunch at Bayamón <i>(Box lunches will be provided at the Bayamón Plaza. Drop off hard hats and safety vests at lunch area.)</i>
Transportación Pública en el Area Metropolitana de San Juan Grupo 1: Bayamón – Cataño en carro público, lancha a SJ Grupo 2: Bayamón – Río Piedras en carro público, Metrobus Expreso a SJ Grupo 3: Bayamón – Santurce, Pda. 18 en carro público, Metrobus o AMA hasta SJ	1:30-5:00	Public Transportation in the San Juan Metropolitan Area Group 1: Bayamón – Cataño in público, ferry to Old SJ Group 2: Bayamón – Río Piedras in público, Metrobus Expreso to Old SJ Group 3: Bayamón – Santurce, Stop 18 in público, Metrobus or AMA to Old SJ
Recorrido por el Viejo San Juan Dr. Aníbal Sepúlveda <i>(Lugar de encuentro: Oficina de Información de Turismo en la Plaza Darsénas, un edificio pequeño rosado al borde el puerto, al lado el edificio hay una placita con una fuente.)</i>	5:00-7:00	Walking Tour of Old San Juan Dr. Aníbal Sepúlveda <i>(Meet at Tourism Information Office at Plaza Darsénas, a small pink building on the edge of the port, there is a small fountain & plaza on one side of the building)</i>

Please remember to wear boots and long pants for the site tour of Martínez Nadal today.

Note to faculty: Optional gathering for dinner in Old San Juan. Location to be announced.

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Jueves, 14 de enero de 1999		Thursday, January 14, 1999
Coordinador	Dr. Nelson Irizarry	Coordinator
Panel de Siemens Transit Team sobre coordinación, sistemas, operaciones y mantenimiento	9:00 – 10:00	Panel Presentation by Siemens Transit Team on Interface Coordination, Systems, Operations & Maintenance
Mark Evans, Director de Administración del Proyecto		Mark Evans, Project Administration Director
Joe Mundo, Gerente de Coordinación		Joe Mundo, Interface Coordination Manager
Gerhard Aue, Gerente de Sistemas		Gerhard Aue, Systems Manager
Joe Ferretti, Gerente de Operaciones y Mantenimiento		Joe Ferretti, Operations & Maintenance Manager
Receso	10:00-10:30	Break
Continúa Panel de Siemens	10:30-11:30	Continuation of Siemens Panel
Presentación sobre la extensión de Minillas	11:30-12:00	Presentation on Minillas Extension
Arq. Javier Mirandés, Gerente de Licitación de la Extensión de Minillas, Oficina del Tren Urbano		Arch. Javier Mirandés, Procurement Manager for Minillas Extension, Tren Urbano Office
Almuerzo	12:00-1:00	Lunch
4^{ta} Sesión de posters <i>(ver itinerario aparte para los posters del día)</i>	1:00-1:45	4th Poster Session <i>(see separate schedule for featured posters)</i>
Visita a la alineación en Helicóptero (Traslado al Aeropuerto de Isla Grande en vanes. Viajes se harán en grupos de 5 personas.)	1:45-5:00	Helicopter Tour of Tren Urbano Alignment (Transfer to Isla Grande Airport by vans. Tours will be 5 persons per trip.)

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Viernes, 15 de enero de 1999		Friday, January 15, 1999
Coordinador	Dr. Benjamín Colucci	Coordinator
Gerencia & Liderazgo Sr. Edward L. Thomas, Administrador Asociado de Investigación, Demonstración e Innovación, Administración Federal de Transporte	9:00-10:00	Management & Leadership Mr. Edward L. Thomas, Associate Administrator for Research, Development and Innovation Federal Transit Administration
Receso	10:00-10:30	Break
El sistema de transportación multimodal del área metropolitana de San Juan: Conexiones Viales Claves Dr. Sergio L. González, Director Ejecutivo, Autoridad de Carreteras y Transportación de Puerto Rico	10:30-11:30	The San Juan Metropolitan Area Multimodal Transportation System: Key Highway Links Dr. Sergio L. González, Executive Director, Puerto Rico Highway and Transportation Authority
La naturación de grandes áreas edificadas Dr. Wolfgang Rudolf, Universidad de Humboldt, Berlin	11:30-12:30	Naturation of Large Built Areas Dr. Wolfgang Rudolf, Humboldt University, Berlin
Almuerzo	12:30-1:30	Lunch
5^a Sesión de posters <i>(ver itinerario aparte para los posters del día)</i>	1:30-2:30	5th Poster Session <i>(see separate schedule for featured posters)</i>
Evaluación de los posters Profesores y estudiantes	2:30-3:15	Poster Evaluation Students and professors
Evaluación del Encuentro Sra. Lydia E. Mercado & Dr. Antonio A. González	3:15-4:00	Evaluation of Conference Ms. Lydia E. Mercado & Dr. Antonio A. González
Cena de Clausura Casa Diego, Carr. 176, Km. 8, Cupey (Se proveerán mapas. Los estudiantes y facultad puede viajar en los vanes desde el hotel.)	7:30	Closure Dinner Casa Diego, Road 176, Km. 8, Cupey (Maps will be provided. Carpooling recommended. Students & faculty may travel by van from the hotel)

Tren Urbano UPR-MIT Professional Development Program - Student Directory - 1998-99

Acevedo Martinez Douglas S.

Bimini 28 Urb. Ponce de Leon

Mayaguez PR 00680-

Phone: (787) 265-4908 University: UPR

Email:

Program Year: Group 5 - 1998

Research *Best Marketing Practices for Integrated Public*

Topic: *Transportation System*

Blackman Lora

391 Broadway Apt. 208

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Program Year: Group 5 - 1998

Research *Tren Urbano Case Study*

Topic:

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Phone: (787) 834-5387 University: UPR

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Program Year: Group 5 - 1998

Research *Análisis de las Cláusulas de Penalidades e Incentivos*

Topic: *del Contrato de KKZ/CMA*

Bowen

Renee

Phone:

University: MIT

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Program Year: Group 5 - 1998

Research *Undergraduate student assisting graduate student*

Topic:

Barreto Acobe Clary D.

Calle Esteban Ferrer #108, Edificio Alma Mater Apto. 2D

Mayaguez PR 00680-

Phone: (787) 833-1826 University: UPR

Email: cbarreto@rmce02.upr.clu.edu

Program Year: Group 5 - 1998

Research *Design of Passenger Car Interface Areas for Tren*

Topic: *Urbano*

Centeno Calero Carmen M.

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Program Year: Group 5 - 1998

Research *Evaluation of Fare Collection System*

Topic:

Berger Noah

244 Somerville Avenue

Somerville MA 02143-

Phone: (617) 629-0298 University: MIT

Email: noahb@mit.edu

Program Year: Group 5 - 1998

Research *Next Stop Tren Urbano: Establishing Criteria for*

Topic: *Adding Transit Stations Along Partially Defined Alignments*

Correa Lafuente Carmen

914-2 Jardines de San Francisco

San Juan PR 00927-

Phone: (787) 751-6446 University: UPR

Email: hp911785@rrpac.upr.clu.edu

Program Year: Group 5 - 1998

Research *Hato Rey Nuevo Centro Station: Intermodal Integration*

Topic: *Study*

Tren Urbano UPR-MIT Professional Development Program - Student Directory - 1998-99

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Research N/A
Topic:

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Program Year: Group 5 - 1998
Research *Development of Successful Public Transit Marketing*
Topic: *Strategies for the Tren Urbano*

Deeming **Eryn**
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Phone: (617) 868-2352 University: MIT
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Program Year: Group 5 - 1998
Research *Development in Support of Transit: Land Use*
Topic: *Incentives and Regulation for Fostering Transit-Oriented Development*

Gracia **Sharleen**
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Research *Fare Collection Integration*
Topic:

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Phone: (787) 721-4673 University: UPR
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Program Year: Group 5 - 1998
Research *Rehabilitación y desarrollo de vivienda en las*
Topic: *comunidades Minillas, Campo Alegre, Hipódromo y Figueroa en el caso urbano de Santurce*

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1010 Mass. Ave. Apt. #3
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Program Year: Group 4 - 1997 / Group 5 - 1998
Research *Conflict Management in Tren Urbano*
Topic:

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Research N/A
Topic:

Hernández Cuevas **Orlando**
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Program Year: Group 5 - 1998
Research N/A
Topic:

Tren Urbano UPR-MIT Professional Development Program - Student Directory - 1998-99

Hsieh

Yo-Ming

Phone: University: MIT
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Program Year: Group 5 - 1998
Research *Rio Piedras Geotechnical Analysis*
Topic:

Lee

Jason

305 Memorial Drive, #410B
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Email: jasonlee@mit.edu
Program Year: Group 5 - 1998
Research *The Intermodal Connection: Integrating San Juan's*
Topic: *Bus and Público Network with Tren Urbano*

Kim

Yun

Phone: University: MIT
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Program Year: Group 5 - 1998
Research *Rio Piedras Geotechnical Analysis*
Topic:

Li

Tong

MIT, Room 1-270
Cambridge MA 02139-
Phone: (617) 253-6232 University: MIT
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Program Year: Group 5 - 1998
Research *Web Integrated Project Management Environment:*
Topic: *Incorporating Information Technology in Tren Urbano*
Project Management Process to Improve Efficiency
and Productivity

Knapick

Randy

33 JAY #2
Somerville MA 02144-
Phone: (617) 666-6674 University: MIT
Email: knapick@mit.edu
Program Year: Group 5 - 1998
Research *The Spatial and Business Evolution of Retailing in San*
Topic: *Juan: Implications for Tren Urbano*

Lin

Elton

195 Binney Street #2209
Cambridge MA 02142-
Phone: (617) 374-9587 University: MIT
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Program Year: Group 5 - 1998
Research *Transit Access to San Juan*
Topic:

Lane

Clayton

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Cambridge MA 02139-
Phone: (617) 225-9745 University: MIT
Email: claytonl@mit.edu
Program Year: Group 4 - 1997 / Group 5 - 1998
Research *Improving Access to Jobs via Effective Public*
Topic: *Transportation: A Framework for Mobility in San Juan*

Mahoney

Stephen

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Cambridge MA 02139-
Phone: (617) 225-1155 University: MIT
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Program Year: Group 4 - 1997 / Group 5 - 1998
Research *The Project Configuration Process in Mixed Delivery*
Topic: *Settings*

Tren Urbano UPR-MIT Professional Development Program - Student Directory - 1998-99

Maldonado Hernández Ivette

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Juana Diaz PR 00795-
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Email:
Program Year: Group 5 - 1998
Research *N/A*
Topic:

Miranda Palacios Sonia

22 Magazine Street, #1

Cambridge MA 02139-
Phone: (617) 491-5889 University: MIT
Email: smiranda@mit.edu
Program Year: Group 5 - 1998
Research *Designing a Neighborhood with Emphasis on City Life*
Topic: *and Pedestrian Access*

Marcano Rivera Abigail

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Phone: (787) 869-3443 University: UPR
Email:
Program Year: Group 5 - 1998
Research *Evaluación Cuantitativa y Cualitativa del Sistema de*
Topic: *Transportación*

Montalvo Torres Tomás

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Phone: (787) 805-4754 University: UPR
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Program Year: Group 5 - 1998
Research *Techniques for Prediction of Ground-Borne Vibrations*
Topic: *Caused by Subway Trains*

Martínez Vega Joel A.

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Mayagüez PR 00680-
Phone: (787) 805-5652 University: UPR
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Program Year: Group 5 - 1998
Research *Analysis of Intermodal Transfer Facilities for Some*
Topic: *Stations of Tren Urbano*

Moreira Joana

195 Binney Street, Apt. 2216

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Phone: (617) 679-0973 University: MIT
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Program Year: Group 5 - 1998
Research *Price Elasticities and Alternative Fare Strategies in*
Topic: *San Juan*

Mendoza Zayas Nahir

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Program Year: Group 5 - 1998
Research *Traffic Calming: A Study of its Application to the Tren*
Topic: *Urbano*

Navarro Díaz Criseida

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Bayamón PR 00956-
Phone: (787) 398-1706 University: UPR
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Program Year: Group 5 - 1998
Research *El impacto de las estaciones Bayamón Centro y*
Topic: *Complejo Deportivo del Tren Urbano y el nuevo expreso Río Hondo sobre la rehabilitación de su entorno*

Tren Urbano UPR-MIT Professional Development Program - Student Directory - 1998-99

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111 Sciarrappa St. Apt.#7
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Program Year: Group 5 - 1998
Research *Analysis of Real Control Strategies for Tren Urbano*
Topic:

Parmegiani Sebastiano
70 Amherst #304
Cambridge MA 02139-
Phone: (617) 225-6207 University: MIT
Email: sp1@mit.edu
Program Year: Group 5 - 1998
Research *The New Port of San Juan de Portorico: Preliminary*
Topic: *Research and Proposals*

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Research *Anti-Slip/Slide Breack Control System for Tren Urbano*
Topic:

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Research *Geotechnical Conditions Along Future Extension of the*
Topic: *Tren Urbano System*

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Program Year: Group 5 - 1998
Research *Determining Relationships and Policies that Transit*
Topic: *Properties Have with Employers to Encourage Ridership*

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Program Year: Group 5 - 1998
Research *Rio Piedras Geotechnical Analysis*
Topic:

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Program Year: Group 5 - 1998
Research *PRHTA and Station Area Development: The Role of a*
Topic: *Transit Agency within a Dynamic Planning Environment*

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Research *Transportation Options of Finished Vehicles*
Topic:

Tren Urbano UPR-MIT Professional Development Program - Student Directory - 1998-99

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Research *Análisis de los retrasos en el proceso de*
Topic: *reclamaciones en un contrato "diseño-construcción"*

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Research *Geotechnical Analysis of Río Piedras*
Topic:

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Program Year: Group 5 - 1998

Research *Tool Design for the Operations Workforce Planning*
Topic: *and Budget Analysis*

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Program Year: Group 5 - 1998

Research *Undergraduate student assisting graduate student*
Topic:

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Program Year: Group 5 - 1998

Research *Train Road Enviromental Exchange Plan Tren Urbano*
Topic: *Puerto Rico*

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Research *Transportaion Options of Finished Vehicles*
Topic:

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Program Year: Group 5 - 1998

Research *Desarrollo e implementación de los medios de*
Topic: *orientación en el Tren Urbano*

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Research *Geotechnical Analysis of Río Piedras*
Topic:

Tren Urbano UPR-MIT Professional Development Program - Student Directory - 1998-99

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Program Year: Group 5 - 1998

Research *Fare Integration Plan for the Públicos and Tren Urbano*
Topic:

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Guoping

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Program Year: Group 5 - 1998

Research *Rio Piedras Geotechnical Analysis*
Topic:

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Program Year: Group 5 - 1998

Research *Desarrollo e implementación de los medios de*
Topic: *orientación en el Tren Urbano*

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Program Year: Group 5 - 1998

Research *Proyecto de planificación que incorpora mecanismos*
Topic: *fiscales y esquemas financieros para darle un uso eficiente a los terrenos aledaños a la estación del Tren Urbano de Bayamón Central*

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Program Year: Group 4 - 1997 / Group 5 - 1998

Research *Infrastructure Management for Tren Urbano*
Topic:

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Tren Urbano UPR-MIT Professional Development Program - Faculty and Staff Directory - 1999

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Tren Urbano UPR-MIT Professional Development Program - Faculty and Staff Directory - 1999

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**Student Research Projects
Poster Sessions for January 1999**

Poster Session #1 – Friday, January 8, 1:30-2:30 PM	
MARKETING / PUBLIC INFORMATION	Acevedo Martinez, Douglas / Goyco de Vera, Libby, UPR Parikh, Ami, MIT
CONSTRUCTION MANAGEMENT	Avilés Hernández, Víctor, UPR Rawls, Carmen, UPR Li, Tong, MIT
VEHICLES	Ortiz Rivera, Eduardo, UPR Pujols Aguayo, Sergio / Toledo García, Gustavo, UPR
Poster Session #2 – Monday, January 11, 1:30-2:30 PM	
JOINT DEVELOPMENT / ECONOMIC DEVELOPMENT	Deeming, Eryn, MIT Knapick, Randy, MIT Park, Munsun, MIT
URBAN DESIGN / ARCHITECTURE	Miranda Palacios, Sonia, MIT Rodríguez, Carlos, UPR Roman, Tanya / Vicens, Miguel, UPR
TREN URBANO CASE STUDY	Blackman, Lora, MIT
Poster Session #3 – Tuesday, January 12, 1:30-2:30 PM	
FARE COLLECTION, POLICY, STRUCTURE	Centeno Calero, Carmen, UPR Gracia, Sharleen, UPR Moreira, Joana, MIT Vargas Gonzalez, Jessica, UPR
INTERMODAL INTEGRATION	Correa Lafuente, Carmen, UPR Lee, Jason, MIT Martínez Vega, Joel, UPR
Poster Session #4 – Thursday, January 14, 1:00-1:45 PM	
OPERATIONS & MAINTENANCE	Marcano Rivera, Abigail, UPR Rivera Ortiz, Damary, UPR Ortiz, Iris, MIT
PORT PLANNING	Parmegiani, Sebastiano, MIT
PLANNING	Fernández Rosselli, Lisa, UPR Navarro Díaz, Criseida, UPR Viqueira, Emilie, UPR
Poster Session #5 – Friday, January 15, 1:00-2:00 PM	
ENVIRONMENTAL / VIBRATION	Montalvo Torres, Tomás, UPR
TRAFFIC ENGINEERING	Barreto Acobe, Clary, UPR Mendoza Zayas, Nahir, UPR
TRANSPORTATION PLANNING	Berger, Noah, MIT Lin, Elton, MIT
GEOTECHNICAL	Pérez Merced, Maribell, UPR

V^{to} Encuentro UPR/MIT sobre el Tren Urbano \ 5th UPR-MIT Conference on Tren Urbano \ January 7-15, 1999

Thursday, January 7, 1999	
8:30	Registration
9:00	Welcome and Introduction to the 5 th UPR/MIT Conference on Tren Urbano <i>Dr. Antonio A. González</i> <i>Ms. Lydia E. Mercado</i>
10:00	Break
10:30	Organizational Portrait of the Tren Urbano Office <i>Mr. Randy Altshuler</i>
11:30	Project Status <i>Mr. Chris Dixon</i>
12:30	Lunch
2:00	Financing of Tren Urbano Project <i>Dr. Carlos Colón de Armas</i>
3:00	Break
3:30	The Secretary's Vision <i>Dr. Carlos I. Pesquera</i>
Friday, January 8, 1999	
9:00	Introduction to presentations on international rapid transit systems <i>Dr. Felipe Luyanda</i>
9:15	Experiences in Venezuela - Caracas <i>Arch. Raymundo Mussa</i> <i>Arch. David Gouverneur</i>
11:15	Break
11:45	Experiences in Brazil - São Paulo <i>Dr. Claudio de Senna Frederico</i>
12:45	Lunch
1:30	Opening of Poster Exhibit and 1 st Poster Session
2:30	Experiences in Colombia - Medellín <i>Dr. Jorge Mario Gómez García</i>
3:30	Break
4:00	Experiences in Colombia - Medellín Part 2
7:30	Welcome Dinner <i>Cuartel de Ballajá, Old San Juan</i>
Saturday, January 9, 1999	
All day	Optional Recreational Activities Option #1: <i>El Yunque National Rain Forest and Luquillo Beach</i>

Option #2: <i>Catamarán & snorkeling & Luquillo Beach</i>	
Sunday, January 10, 1999	
All day	Free day
Monday, January 11, 1999	
9:00	Transit Systems in Europe <i>Dr. Johh Pucher</i>
10:30	Break
11:00	Experiences in Spain - Valencia <i>Eng. Julio Gil Roda</i>
12:30	Lunch
1:30	2 nd Poster Session
2:30	Analysis of the City of San Juan <i>Prof. Esteban Sennyey</i>
3:30	Break
4:00	Urban Development of the San Juan Metropolitan Area <i>Dr. Aníbal Sepúlveda</i>
Tuesday, January 12, 1999	
9:00	Presentation on the design and construction of the tunnel and stations in Río Piedras <i>Engineers from KKZ</i>
10:00	Break
10:30	Site Tour of Río Piedras Construction
12:30	Lunch
1:30	Presentation on Boston University & Northeastern University Programs <i>Profs. Bill Anderson & Peter Furth</i>
2:00	3 rd Poster Session
3:00	Consultation with Tren Urbano Professionals
Wednesday, January 13, 1999	
9:00	Panel Presentation on Tren Urbano Construction <i>HTA Engineers</i>
10:00	Break
10:30	Site Tour of the Alignment from Villa Nevárez to Bayamón stopping at Martínez Nadal
12:30	Lunch at Bayamón

1:30	Public Transportation in the San Juan Metropolitan Area
5:00	Walking Tour of Old San Juan <i>Dr. Aníbal Sepúlveda</i>
Thursday, January 14, 1999	
9:00	Panel Presentation on Interface Coordination, Systems, Operations & Maintenance <i>Siemens Transit Team</i>
10:00	Break
10:30	Continuation of Siemens Panel
11:30	Presentation on Minillas Extension <i>Arch. Javier Mirandés</i>
12:00	Lunch
1:00	4 th Poster Session
1:45	Helicopter Tour of Tren Urbano Alignment
Friday, January 15, 1999	
9:00	Management & Leadership <i>Mr. Edward L. Thomas</i>
10:00	Break
10:30	The San Juan Metropolitan Area Multimodal Transportation System: Key Highway Links <i>Dr. Sergio L. González</i>
11:30	Naturation of Large Built Areas <i>Dr. Wolfgang Rudolf</i>
12:30	Lunch
1:30	5 th Poster Session
2:30	Poster Evaluation
3:15	Evaluation of Conference
7:30	Closure Dinner <i>Casa Diego, Cupey</i>