

PUBLIC TRANSPORTATION IN BOSTON
Cambridge, Massachusetts
June 11-17, 2003

All meetings are in MIT Room 3-270 except as noted

Day	Time	Subject	Lecturer(s)
Monday June 9 and Tuesday June 10		Introduction to Tren Urbano and San Juan, @ Tren Urbano Offices	
Wednesday June 11			
	approx. 3pm	Arrival, Introduction to Boston, scavenger hunt hosted by MIT students (start at McCormick Hall)	
	6:30-10:00 PM	Boston Harbor Dinner Cruise (Long Wharf, Boston)	
Thursday June 12			
	9:00-10:00	Introduction to Course and Research Projects	Nigel Wilson, Ken Kruckemeyer
	10:00-10:15	BREAK, Room 1-236	
	10:15-12:30	Boston History	Fred Salvucci
		Boston Transportation History	Ken Kruckemeyer
	12:30-1:30	Lunch at MIT	
	1:30-2:30	Presentation: MBTA, Orange Line/Red Line/Urban Ring	Ken Kruckemeyer
	2:30-6:00	Field Trip: CT1 or CT2 Bus/Silver Line/Orange Line	
	evening	Free	
Friday June 13			
	8:00-11:00 AM	Field Trip: Red Line (meet at Alewife Station at 8 AM)	Ken Kruckemeyer
	11:00-12:00 PM	MIT Student Research Presentations	Jordan Karp: Joint Development of Mixed-Use Transit Facilities ✓ Jing Su: Reclaiming Residual Spaces From Elevated Transport Infrastructure ✓ Demian Raspall Galli: Privately Provided Transit Services: A Contracts Approach ✓ Alex Cohen: This Train is Not Going to Work (Tren Urbano and Non-Work Travel) ✓
	12:00-1:00	Lunch at MIT	
	1:00-2:30	Transportation Planning and Modeling	Mikel Murga
	2:30-2:45	BREAK, Room 1-236 ✓	
	2:45-4:00	Traffic Engineering and Transit Priority	Peter Furth (Chair, Dept. of Civil & Env. Engineering, Northeastern University)
	5:00	Pick up @ dorms, leave for Talbot House	
	7:00	Dinner in Concord, NH	
	10:00	Arrival at Talbot House	

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Saturday June 14		Day spent in Vermont	
Sunday June 15		Return to Boston by early afternoon, rest of day open	
Monday June 16			
	9:00-10:00 AM	CTA and Transport Visualization Methods	Mike Shiffer (VP for Planning, Chicago Transit Authority)
	10:00-10:15	BREAK, Room 1-350	
	10:15-11:15	Silver Line and High-Quality Bus Service	Mike Mulhern (General Manager, MBTA)
	11:15-12:00 PM	The Vision for Urban Transportation in Puerto Rico (suggested title)	Jack Allison, Executive Director, Puerto Rico Highway and Transportation Authority
	12:00-1:00	Lunch at MIT	
	1:00-2:00	Student Presentations	Selman Altun: Designing and Managing Transit Operations To Take Advantage of Transit Signal Priority Miguel Vescovacci: Junction Capacity and Performance in Rail Transit Bassel Younan: Applying Operations Planning and Operations Control Strategies to Improve Transit Service Connectivity Jeff Busby: Accessibility Based Transit Planning
	2:00-3:00	Public Transportation Introduction	Nigel Wilson
	3:00-6:00	Field Trip: Transitway/Operations Center (Dave Carney)	Nigel Wilson
	evening	Free	
Tuesday June 17			
	9:00-10:30 AM	Discussion of Student Research Topics -- small groups	Faculty, students in small groups
	10:30-10:45	BREAK, Room 1-236	
	10:45-11:45	Lessons learned from Boston for Tren Urbano	Nigel Wilson, Fred Salvucci, and Ken Kruckemeyer
	11:45-12:45 PM	Course Evaluation and discussion, conclusion & future	Nigel Wilson, Fred Salvucci, and Ken Kruckemeyer
	1:00 PM	Final lunch at MIT (Religious Activities Dining Room, Bldg W-11)	
Wednesday June 18		Day for exploring Boston	

**Participants in MIT/UPR Tren Urbano Encuentro
June 11-17, 2003**

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UPR/MIT/Tren Urbano
Brainstorming Session
Tuesday, June 17, 2003

1.1 Summary of technical sessions at the TU orientation in San Juan, and Public Transportation course at MIT

- Lessons learned, subdivided by professional discipline
- Hot issues in the T Boston, MBTA
- Hot issues in Puerto Rico/Tren Urbano
- Hot issues in ATI - Alternativas de Transporte Integrado

1.2 Lessons learned from

- Tour alignment – TU in Puerto Rico
- Field trip to T stations – Boston
- Panel Discussion

1.3 Potential research projects

1. “Publico” (contract negotiation, integration)
2. BRT – Bus Rapid Transit
3. Marketing – Day #1; Before and After studies
4. Intermodal / integration with AMA, Publico, TU-ATI
5. Security Issues follow-up on José Hernández research (Group 9)
6. GPS / GIS license plate recognition
7. Simulation model
8. T – O – D – Livable communities
9. Check FTA priorities for future professional development projects of this nature.
10. Siemens – Incentives/ desincentives clauses
11. S.O.P.–Std. Operations Procedures/Checklist for dealing with disruptions from unforeseen events, incidents, etc. Practical communications techniques for addressing incidents and disruptions.
12. Successful Incentives and desincentive Programs applied in other disciplines that can be applied to Tren Urbano/ATI to increase ridership or provide continuous growth in ridership throughout the years.
13. Future Phases or Extensions of TU in Carolina (Feasibility/Implementation issues)
14. Workforce development: How to recruit, retain local quality transit officials.
15. What training modules need to developed, to prepare local transit officials to run ATI/Tren Urbano.
16. Economic Analysis of Cost of Using Public Transportation vs. Private-Auto (Reduces VMT, travel, time, etc?)
17. What elements characterize a success for the operation of Tren Urbano/ATI during the 1st year of operations.

18. What elements, including incentives, are considered sound engineering, planning, architectural, marketing and social elements sciences to create and maintain a public transportation culture in San Juan; given 90% are automobile dependency.

1.4 Faculty assign to each student – Focus

- Interdisciplinary component
- Try to match MIT student with UPR student

1.5 Research Implementation Options

- Continue research and/or minor adaptations on previous project from Group 9.
- Feedback for HTA, ATI, TUO on potential projects for Group 10 (Get their feedback in writing assistance from Sr. Carlos Rodríguez Exc. Director from ATI on their perception on how we met their research needs with Group 9 projects.)
- UPR Director and faculty advisors will give an overview of Group 9 project highlights to ATI, HTA and TU officials.

Exhibit 1. Timetable

**UPR/MIT Tren Urbano - Group 10
June 15 – August 15**

Tasks/Deliverables	Deadline
Tren Urbano Notebook and Executive Report, Summary of Technical Sessions, lessons learned and potential research projects of your interest.	Monday, June 30, 2003 Deliver to the attention of Mrs. Gisela González, T ² .
Notification of final research project title and scope.	Thursday, July 10, 2003
Students will be working on their literature review of their assigned project under faculty supervision.	July 10 – August 15, 2003
A literature review associated with the research project assigned to each student.	August 15, 2003
1 st plenary meeting of faculty and students: open discussion.	Saturday, August 30, 2003 at UPR-Mayagüez