

RUTGERS UNIVERSITY

BLOUSTEIN SCHOOL OF PLANNING AND PUBLIC POLICY

**970:555 (Index #31672)
Urban Transportation Policy**

Prof. John Pucher
Autumn 2007
Wednesdays, 10:00-12:30

This course provides an overview of travel trends, problems, alternative solutions, and government policies in urban transport, focusing mainly on the United States. We survey the characteristics of the present urban transport system and examine historical developments in both transport and land use. We analyze several specific problems of the present car-dominated system: energy use, equity, congestion, air pollution, safety, and urban sprawl. We also examine problems of public transportation, particularly the fiscal crisis of transit and the need to improve service quality. We evaluate the relative effectiveness and cost of various proposed solutions: e.g. traffic management, business regulation, pricing and taxation policies, improved technology, increased transit service, widespread adoption of carpooling and vanpooling, consumer regulation, traffic calming, better facilities for pedestrians and cyclists, and limited investment in highway infrastructure. The political/institutional context of urban transportation (legislation, subsidies, regulations, planning guidelines) has changed dramatically in recent years. The evolution of that political/institutional context will be presented, along with discussion of its consequences for the future of transportation planning.

Most of the course will focus on the United States since my spring semester seminar (970:557) is a comparative analysis of urban transportation that examines Canada, Europe, and the rest of the world. Nevertheless, comparisons will be made to other countries throughout the semester, since international analysis of urban transport is my main research area. This course will deal almost exclusively with urban transport in developed countries, while my spring seminar includes developing countries (as well as developed OECD countries) as part of a comprehensive international comparison.

The overall course materials listed below have been chosen deliberately to be as non-technical as possible so that they will be comprehensible and interesting even to those students without any background in transportation.

The main written requirement for the course is a major term paper that will be presented

at the end of the semester. That term paper is described in great detail at the end of this syllabus. There will also be four short essays or discussion questions during the semester, about 4-6 pages long, due at the start of each of the four weeks where they are assigned to be discussed. Most can be either in standard essay format or in lists, charts, or matrices, but it will depend on the exact topic.

The **term paper** may focus on urban transportation in a particular neighborhood, city or metropolitan region (or specific local project), or it may contrast urban transportation systems, problems, solutions, and institutional arrangements in different cities or in different countries. OR you can focus on a specific type of technology, policy issue, or problem instead of a particular city or country: such as BRT or LRT, or congestion pricing, or HOV lanes, or integration of cycling with public transit, or whatever. Do whatever interests YOU! Your papers should be specific, focused, and not general overviews of broad topics. In many cases, students have worked together on joint or coordinated term papers and presentations, but such joint papers must be more extensive (or intensive) and require more effort than a normal paper. Students will be asked to make a powerpoint presentation of the key aspects and main findings of their term papers at the end of the semester.

The **four short essays or discussion questions** will deal with specific topics posed for discussion one week in advance of the class where they will be discussed. Obviously, they will be topic-based (e.g. on energy or environment or congestion or BRT or parking or cycling.). They are primarily for the purpose of class discussion, and I will mainly be grading them just to be sure you have prepared something to discuss in each of those four classes where the discussion papers are due. Each essay should be roughly 4-6 double-spaced typed pages. In most cases, the answers can take the form of lists or matrices as opposed to formal essays in text format. I will assign the essays grades of satisfactory and unsatisfactory (or check, check minus, check plus), as opposed to precise letter grades. Mainly, these essays are just to be sure you have prepared something for class discussion.

Students will be expected to participate actively in class discussion and should plan to do the required readings in advance of class meetings in order to be able to participate effectively. Your contributions to class discussions will influence the final course grade. It is absolutely essential that, at a minimum, students read the 4- and 3-starred entries on this list. The material in these books and articles comprises the core of information for the course and will form the basis for class discussions and exams. Double-starred entries are recommended but not crucial; students should use their own discretion, depending on interest, topic, and time available. Other readings are listed primarily for your reference in case you are interested in pursuing several of the topics areas in more depth. The choice is up to you.

Wherever possible, I am indicating which readings can be directly accessed via the internet, and I will also be posting some readings as PDF files on the common KNIGHT s-drive of the Bloustein School's main computer server, in

the folder 555f07. So please check there for postings. If you access this syllabus via our Bloustein server, you can probably access the websites listed on the syllabus by just clicking on them. Many journal articles are also freely accessible via the RU Library's internet site for electronic journals.

We will be using a number of books in the course (** available for purchase at the Rutgers University Bookstore in downtown New Brunswick):

****Susan Hansen and Gen Giuliano, eds. The Geography of Urban Transportation (New York: Guilford Publications, 3rd Edition, 2004), an excellent and VERY up-to-date book of readings (20 copies available at RU Bookstore).**

David Banister, Unsustainable Transport: City Transport in the 21st Century. London, UK: Routledge Press, 2005. This book is posted as a PDF file on the S drive, common:knight, in the folder called 555fall07, within the subfolder called Intro and Overview Mobility and Sustainability, stored as the file called Unsustainable Transport, a PDF file.

****Downs, Still Stuck in Traffic (Brookings, 2004), devoted mainly to traffic congestion issues, but with very good, insightful analysis of travel trends and transport policies in general. Just came out in its second edition in June 2004, so it is very, very up-to-date and much improved over the first edition. A truly SUPERB book, with many useful discussions and analysis of US travel behavior, land use and transport policies, trends, etc. This book should be carefully read in its entirety by everyone!!**

Gray and Hoel, eds. Public Transportation, (Prentice-Hall, Second Edition 1992), which contains several excellent readings on public transit, although a bit out of date. It would be great if someone could help scan in three or four chapters from this book as PDF files into our common computer storage folder for the class.

Altshuler, et al. The Urban Transportation System: Politics and Policy Innovation by, (Cambridge, Mass., MIT Press, 1981), rather outdated now, but a classic overview of urban transport policy and politics in the U.S.

Pucher and Lefevre, Urban Transport Crisis in Europe and North America (London, England: Macmillan Press, 1996), comparative analysis of travel behavior, transport systems and policies in U.S., Canada, and Europe, out of print but on reserve at Alexander Library. ALL chapters have been scanned into the folder for my international transport class, s-drive, common

knight, folder INTERTRANSPORT.

Vuchic, **Transportation for Livable Cities** (New Brunswick, NJ: Center for Urban Policy Research, 1999), very up-to-date review of transport policy and urban policy issues, with excellent international comparative analysis; available on 5th floor of this building from CUPR Press at 20% discount for students. NOT available at bookstore, since they would not offer discount to students, but CUPR will!! **Available in room 476 in CUPR publications office.**

Schaeffer and Sclar, **Access for All** (Columbia University, 1980), rather outdated but a superb overview of historical evolution of land-use and transport systems in U.S. and Canada.

Meyer and Gomez-Ibanez, **Autos, Transit, and Cities** by (Cambridge, Mass., Harvard University Press, 1981), an overview similar to the Altshuler book but with less political analysis, more economic analysis, and equally out of date.

Nivola, **The Extra Mile** (Brookings, 1996), devoted to energy issues in transportation.

OECD, **Urban Travel and Sustainable Development** (OECD, 1995), an excellent overview of transport developments in OECD countries (basically Europe, North America, Japan, Australia, New Zealand), interesting and useful, but mainly for comparative, international analysis

Dunn, **Driving Forces: The Automobile, Its Enemies, and the Politics of Mobility** (Brookings, 1998)

Kay, **Asphalt Nation** (Berkeley: University of California Press, 1997)

IMPORTANT: Many of the journals listed below are available in electronic format via the Rutgers University Libraries website:

http://www.libraries.rutgers.edu/rul/rr_gateway/ejournals/ejournals.shtml.

The main transportation journals (E=electronic access via RU library website):

<u>Transportation Research Record (E)</u>	(Library of Science and Medicine, Busch Campus)
<u>Transportation Quarterly</u>	(Alexander Library, College Avenue Campus)
<u>Journal of Transport Economics and Policy (E)</u>	(Alexander Library, College Avenue Campus)
<u>Transportation Research (E)</u>	(Library of Science and Medicine, Busch Campus)

Series A-F

Transportation (E) (Alexander Library, College Ave Campus)

Transport Reviews (E) (Alexander Library, College Ave Campus)

The Journal of the American Planning Association (E)

To retrieve PDF files of any JAPA article, just go to the libraries homepage <http://www.libraries.rutgers.edu/>, choose "search catalogs" from the left menu, choose IRIS, and type in the title. It comes up with 8-9 locations for JAPA including a link to the ProQuest electronic gateway. There you re-enter the title, and it takes you right to the downloadable pdfs of all issues of JAPA. Almost everyone has had trouble in the past accessing JAPA, but Clint Andrews assures me that this works very well!!

The Journal of Transport Geography (E)

The Journal of Transportation and Statistics (E)

Transport Policy (E)

World Transport Policy and Practice (E) accessible at: www.ecoplan.org

For anyone doing a research paper, the first step should usually be a thorough review of these journals for the past 5 or so years to determine how much existing information will be available for use in your paper. THE BEST, EASIEST, AND FASTEST WAY TO FIND RELEVANT LITERATURE IS TO CHECK WITH THE FREE TRANSPORTATION LITERATURE SEARCH ENGINE OF THE U.S. DEPARTMENT OF TRANSPORTATION CALLED **TRIS** (Transportation Research Information Service) WHICH IS AVAILABLE ON THE BTS WEBSITE: www.bts.gov. That website is a wealth of information with oodles of links to other websites as well. The statistical portion of that website is: www.transtats.bts.gov. Or just go to: <http://ntl.bts.gov/index.cfm>, and from there you can reach both **TRIS**, the literature search engine, and **TranStats**, the nationwide statistics on all aspects of transportation. Try also the following websites: www.apta.com for all the latest, detailed info on public transit; www.dot.gov for the US Department of Transportation (www.fhwa.dot.gov for motor vehicle and highway-based data; www.fta.dot.gov for transit data; <http://www.nhtsa.dot.gov> for traffic safety information); www.nationalacademies.org/trb (for free pdf files of many superb TCRP reports on various aspects of transit planning and policy); www.vtppi.org (with a zillion links to other useful websites as well as full reports available for free off the web), and lots of others. All details of the federal transport legislation (TEA21) in the USA are available on the DOT's website: <http://www.fhwa.dot.gov/tea21/> For information on reauthorization of the forthcoming, updated federal transport law, see: <http://www.istea.org/>

For exhaustive data on transport in Europe, try out the EU's website:

http://europa.eu.int/comm/energy_transport/etif/index.html.

For additional information, reports, stats on transport in the EU, see the website of the Conference of the European Ministers of Transport:

<http://www1.oecd.org/cem/>

There are so many useful websites, that they are too numerous to list here, so just check out the ones above, and click on one of the hundreds of internet links they provide. And you can obviously do a very general search using www.google.com, which often yields useful results. There is virtually no end to useful internet links for any topic you are interested in, but you often have to search down many paths to get just the right link for your specific needs. For the most part, it is available on the internet somewhere, and you just have to find it! So be persistent!

For an extremely useful listing of about a HUNDRED different transportation website links, organized by category, see: http://www.vtpi.org/0_links.htm.

IMPORTANT DATES TO REMEMBER.....

- | | |
|---------------------------|---|
| <u>September 26</u> | Turn in a memo outlining your proposal for a term paper. This can be turned in earlier if you wish to get comments sooner. |
| <u>Mid-Oct to mid-Nov</u> | possibly an all-day Friday field trip to PATH, Hudson-Bergen Light Rail Line, Hudson River Waterfront Redevelopment, Erie Lackawanna Rail Terminal, NJT Secaucus Transfer, Ferries, etc. |
| <u>October 24</u> | Turn in outline and bibliography for your term paper. |
| <u>December 5</u> | Term paper due. <u>Late papers will NOT be accepted.</u>
(This really is the latest date I can accept papers in time to read them and grade them so I can make my deadline for turning in grades. Please do NOT turn in papers late.) |

RELATIVE WEIGHT OF YOUR ASSIGNMENTS:

In calculating your grade at the end of the semester, the assignments will be weighted in the following manner:

- | | |
|--|-------------|
| 1) Four discussion papers/essays and overall class participation | 50 % |
| 2) Final term paper and PPT presentation | <u>50 %</u> |

TOTAL

100 %

NOTE: I am in the process of getting quite a few more readings from the past two or three years added to this reading list, but I haven't finished assembling them yet. Thus, this list will be supplemented some weeks by additional, more current readings on particular topics.

TOPIC OUTLINE AND READINGS

Triple-starred selections within the list below are required reading. Double-starred selections are recommended. Remaining citations are suggested for those students wishing to concentrate in certain areas of urban transportation.

I. Introduction: Perspectives and Issues in Urban Transportation

***David Banister, **Unsustainable Transport**, chs. 1-4 (skim for intro, but will use these chapters in detail for later topics), posted as PDF file on S drive, common:knight, in folder 555fall07, subfolder Intro and Overview, as file named Unsustainable Transport.

***David Banister, John Pucher and Martin Lee-Gosselin, **“Making Sustainable Transport Politically and Publicly Acceptable: Lessons from the EU, US and Canada”**, posted as Word file on S drive common:knight, in folder 555fall07, subfolder Intro and Overview, as file named Sustainability07 Banister Pucher Gosselin.

**Newman and Kenworthy, Sustainability and Cities, ch. 1

Vuchic, Transportation for Livable Cities, ch. 1

***S. Hanson, "The Context of Urban Travel: Concepts and Recent Trends," in Hanson and Giuliano, eds., The Geography of Urban Transportation, pp. 3-30.

II. History of the Development of Urban Transportation System and Their Impact on Urban Form

Vuchic, ch. 2

***Peter Muller, "Transportation and Urban Form: Stages in the Spatial Evolution of the American Metropolis," in Hanson, Geography, pp. 59-85.

K.H. Schaeffer and Eliot Sclar, Access for All, p. 1-102.

III. Recent Trends in Modal Choice, Urban Spatial Patterns, and Their Interaction; Characteristics of the Current Urban Transportation System

***Susan Hanson, "Context of Urban Travel: Concepts and Recent Trends," in Hanson and Giuliano, pp. 3-30.

***David Banister, Unsustainable Transport, chs. 1-4 (selective parts)

***David Banister, John Pucher and Martin Lee-Gosselin, "**Making Sustainable Transport Politically and Publicly Acceptable: Lessons from the EU, US and Canada**"

Vuchic, ch. 2

*Pucher and Lefevre, Urban Transport Crisis, pp. 7-42 (downloadable as PDF file from the common:knight drive, intertransport folder, file called Crisis02)

***Pucher and Renne, "Socioeconomics of Urban Travel," *Transportation Quarterly*, summer 2003, accessible at:

<http://nhts.ornl.gov/2001/Documents/Pucher-Renne-TQarticle.pdf> OR check out:
<http://policy.rutgers.edu/papers> or http://policy.rutgers.edu/vtc/project_reports.html

*Pucher, "Renaissance of Public Transport in the USA," *Transportation Quarterly*, winter 2002, accessible at: <http://policy.rutgers.edu/papers> or http://policy.rutgers.edu/vtc/project_reports.html

****I am also asking **ALL** of you to visit the BTS website (www.bts.gov) and/or transtats website (www.transtats.bts.gov) and just check out the range of trend statistics available at those sites: highway use, car ownership, transit use, etc.

IV. Urban Transportation Problems and Solutions

A. Overview Works (for general reference)

***Hansen and Giuliano, "Managing the Auto," in Hanson and Giuliano, Geography, pp. 382-404.

Vuchic, Transportation for Livable Cities, ch. 3

***Newman and Kenworthy, Sustainability and Cities, chapters 2,4,5

*Dunn, "Towards a Politics of Mobility: The Auto, Plus," ch. 7, in Driving Forces (with Dunn's recommended solutions to the transport problem)

B. Energy

****David Greene, "Transportation and Energy," in Hanson and Giuliano, Geography, pp. 274-293.

***Newman and Kenworthy, Sustainability and Cities, ch. 3

Nivola/Crandall, The Extra Mile (entire book)

***Peter Newman and Jeffrey Kenworthy, "Gasoline Consumption and Cities: A Comparison of U.S. Cities with a Global Survey " Journal of the American Planning Association, Winter 1989, pp. 24-36; and reply by Gordon and Richardson, JAPA, Summer 1989, pp. 342-345 (xerox of both articles on reserve in Alexander Library)
See also the updated 1990 analysis in the Newman and Kenworthy book.

***I am asking you to visit the BTS website (www.bts.gov) again, and check out the whole range of energy stats available in the National Transportation Statistics of that website, and the even more comprehensive website of the US Dept of Energy: www.cta.ornl.gov/data (for the 2002 edition of the Transportation Energy Data Book)

C. Environmental Impacts

***Newman and Kenworthy, Sustainability and Cities, chs 1, 5

****Christine Bae, "Transportation and the Environment," in Hanson and Giuliano, Geography, pp. 356-381.

OECD, Urban Travel and Sustainable Development, esp. pp. 49-74, pp. 165-197.

***Again, I am asking you to check out the BTS website (www.bts.gov), National Transportation Statistics, section on environmental impacts, and also the EPA's website on national trends in transportation emissions and ambient air quality in US cities:
<http://www.epa.gov/ttn/chief/trends/trends98/>
<http://www.epa.gov/ttn/chief/trends/index.html#tables>

*Also just take a look at the Litman website on the environment:
http://www.vtpi.org/0_sust.htm

*And check out some issues of Sustainable Transport, which is available on the web for free: <http://www.itdp.org/ST/index.html>

D. Safety

*** Pucher and Dijkstra, "Making Walking and Cycling Safer: Lessons from Europe," Transportation Quarterly, summer 2000, pp. 25-50; obtainable from RU website: <http://policy.rutgers.edu/papers> (click on working paper #10 for free download of PDF file), or simply access at: http://policy.rutgers.edu/vtc/project_reports.html

***Peter Jacobsen, "Safety in Numbers," Injury Prevention, 2003, posted as PDF file on the common:knight drive, folder for 555 (called "safe numbers").

***Richard A. Retting, Susan A. Ferguson, and Anne T. McCartt, "A Review of Evidence-Based Traffic Engineering Measures to Reduce Pedestrian-Motor Vehicle Crashes," Amer. J of Public Health, September 2003, Vol. 93, No. 9 (check out RU libraries website for electronic journals)

Altshuler, System, p. 210-251, and p. xxx-xxxii.

Gray and Hoel, pp. 509-526.

***Again, I am asking you to check out the BTS website (www.bts.gov), National Transportation Statistics, section on SAFETY, and ALSO to check out the US DOT's website of the National Highway Safety Traffic Administration: <http://www.nhtsa.dot.gov>. In both cases, please examine the range of statistics available and the trends in traffic deaths and injuries by mode of transport. On the NHTSA website, you'll need to pull down statistics one category at a time in their Accident Report section, mode by mode, I think.

IMPORTANT: The very best international website for traffic deaths, injury data, safety rates, for different countries is from the International Road Traffic Accident Database: <http://www.bast.de/htdocs/fachthemen/irtad/english/englisch.html> Everyone should carefully examine this website for differences in traffic safety rates, trends, etc. among countries and for different modes of travel.

E. Overall Impacts of Transportation and Land Use on Public Health

***Special September 2003 issue of the American Journal of Public Health (vol. 93, no. 9) devoted exclusively to the public health impacts of the physical environment, especially of transport and land use patterns, on public health (available as electronic journal through Rutgers University website). Try to read at least a few of the following articles:

Robert Cervero and Michael Duncan, “**Walking, Bicycling, and Urban Landscapes: Evidence from the San Francisco Bay Area**”

John Pucher, and Lewis Dijkstra “**Promoting Safe Walking and Cycling to Improve Public Health: Lessons From the Netherlands and Germany**”

Lyson L. Geller, “**Smart Growth: A Prescription for Livable Cities**”

Reid Ewing, Richard A. Schieber and Charles V. Zegeer, “**Urban Sprawl as a Risk Factor in Motor Vehicle Occupant and Pedestrian Fatalities**”

Kevin M. Leyden, “**Social Capital and the Built Environment: The Importance of Walkable Neighborhoods**”

Brian E. Saelens, James F. Sallis, Jennifer B. Black, and Diana Chen, “**Neighborhood-Based Differences in Physical Activity**”

ALSO: See the following two PDF files of articles by Reid Ewing and the Center for Smart Growth on their detailed study of the link between obesity and suburban sprawl called “Sprawl Makes you Fat!”:

<http://www.smartgrowthamerica.org/report/JournalArticle.pdf>

AND

<http://www.smartgrowthamerica.org/report/HealthSprawl8.03.pdf>

Also in September 2003, there is a special September-October issue of the **American Journal of Health Promotion devoted to the same topic of transport, land use, and public health. It is entitled: “Health Promoting Community Design.” As the title of the issue suggests, all the articles focus on how communities can be designed in order to permit and encourage safe, feasible, and pleasant physical activity as a natural element in our daily lives. Please skim over the articles in that issue to see if anything interests you. I have the PDF of the table of contents that I will post on our course’s site on the s-drive.

****FINALLY**, please check out the **Center for Disease Prevention and Control’s** website for their detailed data and programs on active living, obesity trends, need for physical exercise, etc: <http://www.cdc.gov/nccdphp/dnpa/obesity/index.htm>, and the **Robert Wood Johnson Foundation’s** website for active living communities: <http://www.rwjf.org/programs/physicalActivity.jsp>. Both the CDC and RWJF programs emphasize the need to redesign communities, land use, and travel behavior to encourage more physical exercise.

Gray and Hoel, pp. 583-616.

***Pucher and Renne, "Socioeconomics of Urban Travel," *Transportation Quarterly*, accessible at: <http://nhts.ornl.gov/2001/Documents/Pucher-Renne-TQarticle.pdf>

***Check out Litman website for useful links and readings:
http://www.vtpi.org/0_equity.htm

****D. Deka, "Social and Environmental Justice Issues in Transportation," in Hanson and Giuliano, *Geography*, pp. 332-355.

Altshuler, *System*, p. 252-316, and p. xxxii-xxxvii.

Pucher, "Equity in Transit Finance", *Journal of the American Planning Association*, October 1981.

Bullard and Johnson, eds. *Just Transportation* (New Society Publications, 1997) is an excellent book of readings on this topic

F. Congestion

****Downs, ***Still Stuck in Traffic***, entire book (I will probably ask entire class to write a discussion paper on this book also, due the day of our class on this topic).

***Everyone should visit the BTS website, *National Transportation Statistics*, section on congestion and economics costs, and also the Litman website (www.vtpi.org), which has extensive analysis of congestion costs. You might also visit the Texas Transportation Institute's website, which has all sorts of publications on congestion. TTI publishes the most widely used estimates on congestion costs for US cities: <http://tti.tamu.edu>.

G. Land-Use and Urban Development

***Newman and Kenworthy, "Promoting Sustainable Urban Change," ch. 6, and "Ethics, Spirituality, and Community in the Sustainable City," ch. 7

****Giuliano, "Land Use Impacts of Transportation Investments: Highway and Transit," in Hanson and Giuliano, *Geography*, pp. 237-273.

****Alternative views of sprawl, a two-part discussion (pro and contra) in the winter 1997 issue of the *Journal of the American Planning Association* (available as electronic journals under JAPA on RU website):

Gordon and Richardson, "Are Compact Cities a Desirable Planning Goal?"

Ewing, "Is Los Angeles Style Sprawl Desirable?"

Dunn, *Driving Forces*, ch. 6

H. Fiscal Problems and the Potential of Mass Transit

****Brian Taylor, "Geography of Urban Transportation Finance," in Geography, pp. 294-331.

Kirby, "Financing Public Transportation," in Gray and Hoel, pp. 445-462.

***Dunn, "Restoring Urban Transit," ch. 4

I. Parking as a Transportation Problem

**Don Shoup, "Evaluating the Effects of Cashing out Employer-paid Parking: Eight Case Studies," *Transport Policy*, Vol. 4, No. 4, 1997, pp. 201-216.

**Don Shoup, "The High Cost of Free Parking," *Journal of Planning Education and Research*, Vol. 17, No. 1, fall 1997, pp. 3-20.

Richard Wilson and Donald C. Shoup, "Parking Subsidies and Travel Crisis," Transportation, Vol. 17, No. 2 (1990), pp. 141-157.

***Donald Shoup, "An Opportunity to Reduce Minimum Parking Requirements," Journal of the American Planning Association, 1994, Vol 61, No. 1, pp. 14-28.

***Richard Wilson, "Suburban Parking Requirements: A Tacit Policy for Auto Use and Sprawl," Journal of the American Planning Association, 1995, Vol. 61, No. 2, pp. 29-42.

V. **BICYCLING as an Important but Neglected Mode of Urban Transportation**

**SKIM the book: Tolley, ed., Sustainable Transport, 2003, about 40 articles on all conceivable aspects of bicycling trends and policies in Europe and North America

**Newman and Kenworthy, "Promoting Sustainable Urban Change," ch. 6, and "Ethics,

Spirituality, and Community in the Sustainable City,” ch. 7

***Pucher, Komanoff, and Schimek, “Bicycling Renaissance in North America,”
Transportation Research, September 1999, Transportation Research, Vol. 33A,
Nos. 7/8 special issue on transport policy in international perspective, available
on Rutgers website: <http://policy.rutgers.edu/papers> (click on working papers
#10 and #11)

**Pucher and Dijkstra, “Making Walking and Cycling Safer: Lessons from Europe,”
Transportation Quarterly, summer 2000. See Rutgers website above, working
paper #10 or #11.

**Pucher, "Bicycling Boom in Germany: A Revival Engineered by Public Policy,"
Transportation Quarterly, Autumn 1997

Rietveld and Daniel, “Determinants of Bicycle Use: Do Municipal Policies Matter?”
Transportation Research A, 2004, posted as PDF file on S-drive, common:knight in 555
folder.

***Check out the website of the National Walking and Bicycling Center:
<http://www.bikewalk.org/index.htm>. A huge range of information on walking and
cycling issues as well as active living programs.

**VI. Politics and Public Policy: The Changing Institutional Environment of Urban
Transportation and Its Impact on Transportation Planning**

***David Banister, **Unsustainable Transport**, chs. 1-4 (skim for intro, but will use these
chapters in detail for later topics), posted as PDF file on S drive, common:knight, in
folder 555fall07, subfolder Intro and Overview, as file named Unsustainable Transport.

***David Banister, John Pucher and Martin Lee-Gosselin, “**Making Sustainable
Transport Politically and Publicly Acceptable: Lessons from the EU, US and
Canada**”, posted as Word file on S drive common:knight, in folder 555fall07, subfolder
Intro and Overview, as file named Sustainability07 Banister Pucher Gosselin.

*Dunn, Driving Forces, chs. 1-4, 7

*Vuchic, chapters 3,4,6, and 7

**Newman and Kenworthy, chapters 5,6

**Wachs, "Reflections on the Planning Process," in Hanson and Giuliano, pp. 141-162.

*Johnston, "The Urban Transportation Planning Process," in Hanson and Giuliano, pp. 115-140.

VII. Comparison of Urban Transportation in Europe, Canada and the United States

(This section might get condensed and given only a brief overview this semester IF we decided to include it in the international transportation seminar next spring.)

***Pucher and Lefevre, The Urban Transport Crisis in Europe and North America, entire book, selected chapters, whichever countries interest you. All chapters posted as PDF files, chapter by chapter on S drive, common:knight, INTERTRANSPORT folder, file names Crisis01 to Crisis10.

*Vuchic, ch. 4

*Newman and Kenworthy, ch. 3

Organization for Economic Cooperation and Development, Urban Travel and Sustainable Development

*Pucher, J. "Urban Travel Behavior as the Outcome of Public Policy: Comparing Modal-Split in Western Europe and North America," Journal of the American Planning Association, Autumn 1988, pp. 509-520.

Pucher, "Capitalism, Socialism and Urban Transportation: A Comparison of Travel Behavior and Public Policies in the East and West," Journal of the American Planning Association, Summer 1990.

*** **TERM PAPER DUE WEDNESDAY, DECEMBER 5th** (Late papers will NOT be accepted, as I absolutely MUST have one week before turning in grades)

******* IN-CLASS PRESENTATIONS OF STUDENT TERM PAPERS**
ON DECEMBER 5 AND 12.

TERM PAPER IN URBAN TRANSPORTATION POLICY ANALYSIS

Your most important assignment in the class is the preparation of a major term paper.

Choose a topic that really interests you, and feel free to discuss this choice with the instructor before embarking on the paper. Choose a topic that is manageable. It is better to write a thorough paper on a topic that is narrowly defined, than a wide-ranging review that is shallow. There is not a required length for the paper, but it should probably be somewhere between 15-25 pages long.

In addition to discussing the topic with the instructor whenever you need to, please observe the following deadlines:

September 26 Turn in brief proposal for paper topic

October 24 Turn in an outline of the paper, and a preliminary bibliography.

December 5 Term paper due. Remember that late papers will **NOT** be accepted.

December 5 & 12 Student presentations of term paper.

Selected Previous Topics:

- Analysis of the bikeway plan for Westchester County
- The role of auto advertising in distorting American travel behavior
- Urban transportation problems and solutions in San Salvador.
- Comparison of the land-use impacts of rapid transit projects in Stockholm and San Francisco.
- The phenomenon of extremely long commutes to work in U.S., its cause, and how it is becoming more and more usual
- Transportation problems and solutions in Newark.
- History of NYC subway and its impact on urban development patterns.
- History of the Philadelphia transit system and its impact on urban development patterns.
- Analysis of the park-and-ride facility at Interchange #9 of the New Jersey Turnpike.
- History of the Erie-Lackawanna RR and its impact on land use and current problems.
- Pros and cons of Westway Project in Manhattan.
- Potential of the taxi to be a more broadly used mode of urban transportation, especially for the elderly and handicapped.
- Potential of jitney services in urban areas.
- A Marxist/radical analysis of the equity problem in urban transportation.
- Current transit problems in New Jersey and a history of the state government's reaction to them.
- Potential of electric cars.
- Land-use impacts of the Washington, D.C. Metro-rail system and the potential of value capture

taxes for financing the costs of rail rapid transit construction.

- Income-redistribution impacts of the new rail rapid transit system in Atlanta.
- Potential of lanes reserved for high-occupancy vehicles to reduce congestion and save energy.
- Potential for distance-based fares on the New York subway.
- Transportation patterns of working women.
- Financing the Washington, D.C., Metro.
- Critique of American transit capital grant programs.
- Effectiveness of the Rutgers campus bus system.
- Problem of growing congestion in suburban areas and the potential of traffic management techniques for reducing this congestion.
- Potential of automated fixed guideway systems in urban areas.
- Potential of high-speed rail transportation, based on experience in France and Japan.
- Problem of crime on transit systems.
- Cost/Benefit analysis of Los Angeles rapid transit system.
- Potential of bicycling to be fully integrated into urban transportation system as practical transport mode.
- Analysis of detailed bikeway and bike route plan for Rutgers University and New Brunswick
- Role of drive-in restaurants, banks, laundries, etc. on transportation.
- Environmental problems arising from the disposal of used tires, batteries, and autos.
- The costs and benefits of air bags for auto safety.
- Technological advances in automotive fuel efficiency: past achievements and future outlook.
- Transportation themes in the films of Alfred Hitchcock.
- past and future of urban passenger ferry systems
- various papers on transportation management associations
- analysis of problem of transporting hazardous materials
- pros and cons of raising speed limit in New Jersey
- potential of battery-powered electric cars
- analysis of North Jersey Coast Line of NJ Transit
- improving pathways and other facilities for bicycle travel
- Disney World as an example of innovative, non-auto-based urban transportation systems
- recent advances in automotive safety and prospects for future improvements
- recent developments in light rail transit, cost-benefit analysis, study of where light rail transit would make economic sense, where not; whether light rail transit is more appropriate in developing countries, where funds not available for full-scale metro systems (several different paper topics here)
- advances in automotive technology to reduce air pollution emissions, progress since 1970 to 1995, and prospects for continued pollution reductions through technological advances in the future
- official EIS and the REAL environmental impacts of the widening of the NJ Turnpike
- recent experience with improving ferry service in cities as practical means of urban transport, with special emphasis on NYC
- safety impacts of raising the speed limit

- PLUS, literally hundreds of other topics I can't remember now, covering the entire range of issues, all over the world as well as right here in New Jersey

Whatever topic you choose, it is essential that the paper you write not be simply a regurgitation of class notes and required readings. It should be specific and concrete in its content, and should demonstrate a significant amount of research and thinking on areas omitted, or only briefly covered in class. You can certainly deal with a topic discussed in class, but do not simply review what we already did in class and readings. Do NOT pick a topic so broad that you cannot do justice to it; for example, do not propose a paper on the environmental impacts of transportation.