NEW TRANSPORT VISIONS IN ORLANDO

April 30, 2005
Florida

Organized by the

Advanced Transit Association
Rethinking Transportation
Come join those who are laying the groundwork for high performance Automated People Movers on April 30th in sunny Orlando! The Advanced Transit Association (ATRA) has organized a lively day of presentations and discussions centered on Personal Rapid Transit (PRT) and other paradigm-breaking mobility technologies. Where does PRT stand as a commercial technology? How can metropolitan officials be made aware of the attractive new mobility options that are available? What strategies do we need to follow? Should PRT installations be demonstrated in senior and resort communities?

Seating is limited so advance registration is recommended. The registration fee is $75. ATRA members qualify for a lower rate of $55. Lunch will be served. Additional information will be posted to www.advancedtransit.org as it becomes available. Call or write Larry Fabian for more details: (617)825-2318, email: lfabian21@earthlink.net.

AGENDA

9:00 AM - 10:30 AM – Opening Session – Status of Current Initiatives
Moderated by: Larry Fabian
Welcome and Greetings, Bob Dunning, ATRA President
Taxi 2000’s Promising Future, Jeral Poskey
ULTra Interest Group in Europe, Richard Teychenne

10:30 AM - 10:45 AM – Break

10:45 AM - 12:15 PM – Breaking Old Transit Paradigms:
Analysis and Research in Advanced Transit
The Case for PRT – Based on Analysis of Existing Transportation Systems, Not Vendor Information, Peter Muller
Applying Computer Networking Concepts to Moving People, Bill James
Crossover Technology: Smart Elevators, ATRA, and Parking, Shannon McDonald
PRT Standards, William Rourke

12:15 PM - 1:30 PM – Lunch

1:30 PM - 3:00 PM – New System Concepts
An Airport PRT Application, William Rourke
Dual-Mode PRT, Personal Transport Systems, Steve Garfink
Evacuated Tube Transport, Can it Really Happen?, Daryl Oster

3:30 PM - 5:00 PM – Closing Session – Societal Mobility Trends and ATRA
Automated Transit Research Objectives at Kansas State University, Stan Young
Needs for a Transport Revolution, Malcolm Buchanan
Round Table Discussion on ATRA Activities
Malcolm Buchanan  
*Needs for a Transport Revolution*

Far-sighted researchers appear to foresee that in urban and suburban areas public transport does not need to be very fast in order to out-perform the car. Since average suburban traffic speeds are commonly only 20-30kph, what is needed is a dense public transport network, with conveniently located stops, no waiting for the vehicle to arrive, and no stopping en route for traffic lights, congestion or to pick up or set down other passengers. The automated 4-seat vehicles on ULTra networks wait for passengers at the many stops, rather like taxis, and then join the through track and proceed non stop to the destination stop at 40kph. This gives journey (door to door) speeds twice as fast as a bus or tram and just about as fast as a car on uncongested streets. Early evaluations clearly suggest that ULTra will largely pay for both its operating and capital costs out of the farebox.

Steve Garfink  
*Dual-Mode PRT, Personal Transport Systems*

In an era of severely limited public funding, the prospects of obtaining financing for novel PRT projects are increasingly remote. Is there a case to be made for attracting private equity investments to exclusively fund innovative transportation? We will examine the economic characteristics that would support private funding and consider one transportation system designed to meet these criteria.

William (Bill) James  
*Applying Computer Networking Concepts to Moving People*

In communications networks there are many layers: cell, satellite, cable, telephone, microwave, Wi-Fi, BlueTooth, CB, etc. The rich mixture allows communications to be economically tailored to spot needs. The same concepts can be applied to create a rich mixture in the transportation matrix. Based on riders per day, the elevator is the most successful form of public transportation. Computer network techniques provide inexpensive ways to implement "horizontal elevators"; that is, small networks that solve specific needs.

Shannon McDonald  
*Crossover Technology: Smart Elevators, ATRA, and Parking*

A brief discussion of how new technology is beginning to blur the lines between elevators and the APM area potentially creating new forms of PRT’s. There have been recent developments of smart elevators that have been placed into operation that I will discuss along with the potential of these systems as future versions of PRT’s. These systems are often used to link parking garages to activity centers, so these garages can be a testing ground for developing connections between old and new advanced transit solutions.

Peter Muller  
*The Case for PRT – Based on Analysis of Existing Transportation Systems, Not Vendor Information*

Using information from existing systems such as the Morgantown PRT and Park Shuttle, the claims of PRT are examined in light of available (though minimal) operational data.

Daryl Oster  
*Evacuated Tube Transport, Can it Really Happen?*

Evacuated Tube Transport (ETT) is a new kind of transportation system that requires less than two percent of the energy of cars or planes; it is also much safer and faster. Any individual or company may profit by participating in the plan to implement ETT.

Jeral Poskey  
*Taxi 2000’s Promising Future*

Jeral will comment (as much as possible) on the many promising opportunities for Taxi 2000 in 2005 including the recent tenders at Heathrow and Dubai as well as other studies being conducted in the US.
William Rourke
*An Airport PRT Application*

Drawing from his experience on Denver’s airport development committee, Mr. Rourke will present a concept of using PRT to enable an entirely new paradigm in airport organization and structure.

William Rourke
*PRT Standards*

How do we obtain standards that are inclusive of all transit and NOT exclusive of PRT? Does ATRA need to write PRT Standards for the ASCE?

Richard Teychenne
*ULTra Interest Group in Europe*

The ULTra interest group in Europe is taking on new life. This talk reports on the activities of the group and appropriate updates of the ULTra initiative.

Stan Young
*Automated Transit Research Objectives at Kansas State University*

KSU recently completed a mobility impact study and an architectural integration study of PRT on a college campus. In 2004, FHWA and KDOT sponsored a scanning tour of the Morgantown PRT installation. These activities led to additional funding opportunities to investigate several peripheral issues associated with Automated Small Vehicle Transit (ASVT). Phase-two research objectives as well as partnering and collaboration results from phase one will be presented and discussed.

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**CONFERENCE HOTEL INFORMATION**

Travelodge Main Gate East  
5711 W. Irlo Bronson Memorial Hwy.  
Kissimmee, Fl 34746  
$52 rate – Conference Rate  
1-800-327-1128  
http://www.orlandotravelodgehotel.com/

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**REGISTRATION**

Seating is limited so advanced registration is requested. Registration fee is $75. ATRA member qualify for a lower rate of $55. (Become an ATRA member!!!) Lunch is included.

Mail payment to ATRA at PO Box 249, Boston MA 02122  
… or pay by credit card at our website, [www.advancedtransit.org](http://www.advancedtransit.org)

For more information, visit [www.advancedtransit.org](http://www.advancedtransit.org). Or call (617) 825-2318 or email lfabian21@earthlink.net.