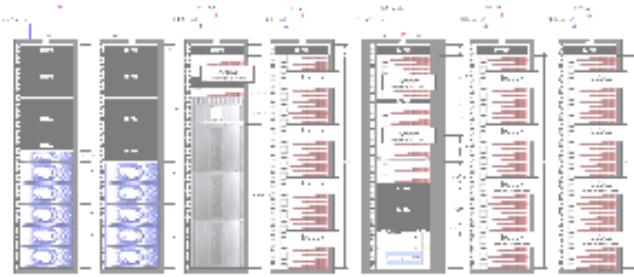


TRANSIMS

Training Course

June 17-19, 2008

Atlanta, Georgia



Staff members from the *Transportation Research and Analysis Computing Center at Argonne National Laboratory (Argonne TRACC)* will hold a training course on the regional transportation analysis code TRANSIMS. The course is targeting primarily analysts new to the TRANSIMS methodology, and covers both the theoretical underpinnings as well as the practical application of the code. Participants will develop a full understanding of the general TRANSIMS principles, implementation details, data requirements, capabilities, and limitations of the software.

TRANSIMS (short for Transportation Analysis and Simulation System) is an integrated set of tools developed to conduct regional multimodal transportation system analyses. With the goal of establishing TRANSIMS as an ongoing public resource available to the transportation community, TRANSIMS is made available by the Federal Highway Administration under a NASA Open Source Agreement and is therefore readily available to the community.

The software is compatible with regular Windows and Linux desktop or server systems, but can also make use of high performance computing systems such as the TRACC cluster, a 512 core Linux system with 240TB of disk space and extremely fast network connections across the United States. This cluster is generally available to researchers in the US transportation community and is currently being used for TRANSIMS traffic simulation, emergency evacuation modeling, computational fluid dynamics for bridge analysis, and structural mechanics codes to determine crashworthiness and structural integrity of highway components and vehicles.



Location

The training course will be held at Room 122 in the Sustainable Education Building on the campus of Georgia Tech. The training sessions will also be broadcast over the Internet (using Adobe Connect) at

<http://anl.acrobat.com/transims/>

Registration

Participation in the training course is free. Travel, lodgings, and other expenses are the responsibility of the participant. Complimentary refreshments during breaks will be provided. Please contact us at the number or E-mail address shown on the right if you would like to attend the training sessions either by Internet or in person.

This is the first TRANSIMS training course held at Georgia Tech. The primary focus will be on the use of individual components inside TRANSIMS, while addressing the fundamental principles to a degree that allows for a better understanding of the capabilities and limitations of the TRANSIMS approach. It also focuses on the issues of network conversion, trip conversion, routing, microsimulation, feedback, and visualization.

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TRANSIMS

Training Session

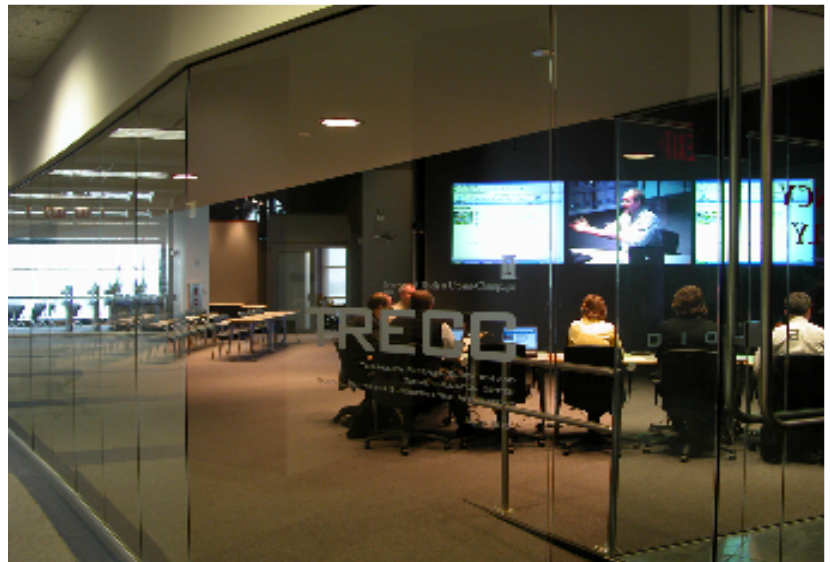
Agenda

Tuesday, June 17, 2008

- 9:00 am Introductions, Project Overview, Discussion of Agenda
- 9:15 am Background of TRANSIMS at TRACC
- 9:45 am General Overview of TRANSIMS and its Components
- 10:30 am **Coffee Break**
- 10:45 am The TRANSIMS Open Source Project – Available Resources
- 11:15 am TRANSIMS Configuration and Framework
- 12:00 pm **Lunch Break**
- 1:15 pm TRANSIMS Control Files and Syntax
- 1:45 pm The TRANSIMS Road Network and Transit Network
- 3:00 pm **Coffee Break**
- 3:15 pm TRANSIMS Trip Table Conversion
- 4:30 pm Discussions
- 5:00 pm **Adjourn**

Wednesday, June 18, 2008

- 9:00 am The TRANSIMS Population Synthesizer
- 10:30 am **Coffee Break**
- 10:45 am The TRANSIMS Activity Generator
- 12:00 pm **Lunch Break**
- 1:15 pm The TRANSIMS Router
- 2:45 pm **Coffee Break**
- 3:00 pm The TRANSIMS Microsimulator
- 4:30 pm Discussions
- 5:00 pm **Adjourn**



Thursday, June 19, 2008

- 9:00 am TRANSIMS Feedback and Equilibration
- 10:30 am **Coffee Break**
- 10:45 am TRANSIMS GIS Tools
- 11:15 am TRANSIMS Subarea Simulation
- 12:00 pm **Lunch Break**
- 1:15 pm Introduction to the TRANSIMS SVN Source Code Archive and Code Structure
- 2:30 pm **Coffee Break**
- 2:45 pm Partitioning and Parallel Processing
- 4:00 pm Discussions
- 5:00 pm **Adjourn**

The training sessions will also be **broadcast over the Internet** (using Adobe Connect) at

<http://anl.acrobat.com/transims/>

More information can be found on the TRANSIMS forum site in the "Front Desk" section.

<http://transims-opensource.org/phpbb/index.php>

Location

Room 122, Lamar Allen Sustainable Education Building (Next to Mason Building)
<http://gtalumni.org/map/>

Directions

Visitor Parking

http://www.parking.gatech.edu/parking/1_on_campus_parking/1_visitor_parking/

MARTA access from Midtown station using Tech Trolley

http://www.parking.gatech.edu/info/1_maps__schedules/6_tech_trolley_route.php