



**THE JAMES ACKERMAN CENTER
FOR THE COMMERCIAL DEPLOYMENT OF
TRANSPORTATION TECHNOLOGIES (CCDoTT)
California State University, Long Beach**

September 29, 2006

TO: Dr. Dorothy Abrahamse, Interim Provost and Senior Vice President
Academic Affairs
BH-303

FROM: Dr. Mahyar Amouzegar, Director
James Ackerman CCDoTT
ECS 617

A handwritten signature in black ink, appearing to read "Mahyar Amouzegar", is written over the printed name and title of the sender.

A handwritten signature in black ink, appearing to read "Stan Wheatley", is written over the printed name and title of the recipient.

Stan Wheatley, Principal Investigator
James Ackerman CCDoTT
FND 220

SUBJECT: **2005-2006 Annual Report**

We are pleased to submit the Annual Report updating the activities of the Center for Commercial Deployment of Transportation Technologies (CCDoTT) for the period of September 1, 2005 through August 31, 2006.

I. UNIT PERFORMANCE AND ACCOMPLISHMENTS

A. Performance

1. Goals & Objectives

The goal of CCDoTT is to continue to facilitate its partnership between government, industry, and academia to improve the overall marine related and transportation system by developing and combining capabilities, resources, and technologies. The focus of effort has evolved to a combined maritime and military emphasis, taking advantage of the proximity of the Port of Los Angeles/Long Beach.

Further, the goal is to leverage commercial and national defense rapid deployment and logistics capabilities to improve military deployment effectiveness and efficiency in support of Force Transformation and Seabasing efforts. Improvements will continue to be measured by the reduction of time and/or cost of military deployment from point of origin to a final destination and will consider emerging requirements of the Seabasing concept.

An additional key program titled "Strategic Mobility 21" has been introduced to configure, define and implement the use of an "inland port intermodal center" as a means to accelerate both military and commercial cargo movements.

CCDoTT goals and objectives support the CSU Mission of applied research as stated in the Higher Education Compact between the Governor and California State University.

2. Factors Affecting Unit Performance

2.1 Campus Agencies and Environment:

The Center has received strong support from Colleges and Centers throughout the University. CCDoTT continues to purchase new equipment in order to increase the research capabilities within the University.

Pursuant to the letter of January 31, 2006 from Dr. Gary W. Reichard, former Provost and Sr. VP for Academic Affairs, Dr. Mahyar Amouzegar, COE Associate Dean for Research, has been named Director of the James Ackerman CCDoTT. This has seen to further reinforce the University/CCDoTT relationship.

2.2 Outside Agencies and Environment:

CCDoTT is well situated to provide research and development for transportation focused industries and government agencies at all levels. Under sponsorship of the Office of Naval Research (ONR), CSULB is in the leading position to further its transportation and logistics research and technology development and continues to develop a wide range of military/commercial agency interests and support.

Relationships have been developed and maintained with universities, industry leaders, government agencies, the military and labor. The national scope of these relationships provide for continued congressional support of CSULB and the CCDoTT program with positive effects for the local community.

Further interest and participation is emerging with respect to ongoing environmental and port security issues.

B: Accomplishments

1. Deliverables

The following paragraphs delineate deliverables from 1997 to the present. They are available online at www.ccdott.org.

1.1 Publications:

Please see "Attachment A – Publications".

1.2 Demonstrations:

Please see "Attachment B – Demonstrations".

1.3 Conferences and Workshops:

Please see "Attachment C – Conferences and Workshops".

1.4 Completed Projects:

Please see "Attachment D – Completed Projects".

2. Research

A major thrust of CCDoTT has been to develop both local capabilities and extended national research relationships to support a viable and expanding research program that addresses the development and operational implementation of transportation technologies for both military and commercial interests.

Continuing technical and administrative interface with military, government and congressional sources remains a key responsibility.

3. Contributions to the University

CCDoTT has enabled faculty and student teams to obtain external grants and contracts, which help support faculty salaries and provide financial support and practical experience for undergraduate and graduate students. CCDoTT provides research opportunities linking CSULB and the Ports of Long Beach and Los Angeles. Relevant research experience, training, and contacts with local and national industry leaders leads to potential job opportunities for CSULB students. The Center is developing and expanding multidisciplinary

research activities that support CSULB's educational mission and broaden the exposure of CSULB transportation related technology to a broad range of commercial and military interests.

II. STUDENT AND FACULTY INVOLVEMENT

CCDoTT has engaged numerous undergraduate/graduate students, faculty and staff from several departments within the College of Engineering, the College of Business, and University College and Extension Services. This has enabled them to conduct advanced technology research and consult with their government, industrial and academic counterparts.

III. UNIT ACCOUNTING

A.	Grants and Contracts Initiated	
	1. Number:	2
	2. Dollar Amount:	\$ 8,250,745
B.	Accounts Closed	
	1. Number:	9
	2. Dollar Amount:	\$ 1,211,443
C.	Other External Funds	
	1. Dollars Received:	\$0
	2. Dollars Expended:	\$0
D.	Assigned Time Utilized in 2005-2006	
	1. Total Units Utilized	n/a
E.	O & E Expenditures in 2005-2006	
	1. Total Dollars Expended:	\$ 3,429,364
F.	Reimbursed Time in 2005-2006	
	1. Total Dollars Expended:	\$0
	2. Total Number of Units:	0
G.	Returned Indirect Cost in 2005-2006	
	1. Total Dollars	\$ 187,404
H.	Space Utilized:	
	1. Square Feet Utilized	1,525

Note: Items A and G reflect figures for the fiscal year period ending in June 2006.

Attachments:

- Attachment A: CCDoTT Publications 1995 – 2006
- Attachment B: CCDoTT Demonstrations 1995 – 2006
- Attachment C: CCDoTT Conferences and Workshops 1995 – 2006
- Attachment D: CCDoTT Completed Projects 1995 – 2006

cc: Dr. Praveen Soni, Chair, Academic Senate
Dr. Elizabeth Ambos, Associate Vice President, Office of University Research
Dr. Robert Behm, Executive Director, CSULB Foundation
University Archives

CCDoTT Publications (1995 – 2006)**September 1, 2005 – August 31, 2006 Reporting Period**

Prepared for MARAD, USTRANSCOM and ONR and available online at www.ccdott.org

2005 Program ElementsAgile Port and Terminal Systems:

The Evaluation and Implementation Plan for Southern California Maglev Freight System:

- “Questions & Answers with Ken James, California State University, Long Beach.” Journal of Commerce, Commonwealth Business Media, Newark, NJ. Vol. 7, issue 1, p. 28. January, 2006.
- “Urban Maglev Freight Container Movement at the Ports of Los Angeles/Long Beach”. Paper presented at Fast Freight, Clean Air Conference. February, 2006.
- “Maglev Train Gathers Steam”. Long Beach Press Telegram. February 5, 2006.
- “Recommended Changes to Page VI-4 of the Goods Movement Action Plan, Phase II Progress Report: Draft Framework for Action (Draft (12/20/05))”. State of California Business Transportation and Housing Agency, California Environmental Protection Agency. February 22, 2006.
- “Maglev Technology Conveys Port Transportation Solutions”. Newsflash. CSULB College of Engineering. pp 1-4. March, 2006.
- ECCO System Project Poster. June, 2006.
- Marketing Study Phase I: Maglev Market Sizing and Operational Model. May, 2006.

Pacific Northwest Agile Port System Demonstration:

- Kulick, Beth and Garcia, Blair. “Keeping Up with Cargo: Simulation Provides the Alternative Port of Call”. Industrial Engineer. Institute of Industrial Engineers, Norcross, GA. pp. 37-40. December, 2005.
- Summary Report of Start-up and Planning Activities. July, 2006.

High Speed Ship Systems:

Automated Multidisciplinary Design Optimization Method for Multi-Hull Vessels:

- Besnard, Eirc; Hefazi, Dr. Hamid and Schmitz, Adeline. “Constructive Neural Networks and their Application to Ship Multi-Disciplinary Design Optimization”. Manuscript submitted to Journal of Ship Research. April, 2006.
- Hefazi, Hamid; Schmitz, Adeline; Shinde, Raul, etal. “Multi-disciplinary Design and Optimization Tools for Multihull Ships”. Abstract submitted to the 10th International Symposium on the Practical Design of Ships and Other Floating Structures (PRADS07). August, 2006.

Waterjet Self-Propulsion Model Test for Application to a High-Speed Sealift Ship:

- Lavis, David R.; Forstell, Brian G. and Purnell, John G. “Compact Waterjets for High Speed Ships”. Abstract submitted for HIPER 06 conference. November 2005.
- Lavis, David R., Forstell, Brian G., and Purnell, John G. “Advanced Compact Waterjet Propulsion for High-Speed Ships”. Paper presented at the 9th International Marine Design Conference 2006 (IMDC’06). Ann Arbor, MI. May, 2006.
- Status Report on Model Arrangements. August, 2006.
- Model and Component Drawing Package. August, 2006.
- Test Plan. May, 2006.
- Status Report on the Model Setup, Instrumentations, and Testing Arrangements. August, 2006.

High Speed Trimaran Technology Development and Application for Benchmark Design Validation of Heavy Air Lift Seabasing Ship (HALSS):

- Preaward Activities Report. August, 2006.
- Description of the Results of Research and Calculation Studies for HALSS Hull Forms. July, 2006.
- Hull Forms and Model Test Plan. July, 2006.

Development of a Route/Mission Dependent Prediction Program for Rational Structural Dynamic Loads for High-speed Sealift Applications:

- Structural Loads presentation to ONR. December, 2005.
- Literature Review Summary Report. July, 2006.

Summary Review of Alternative Shipboard Powering Systems for Naval and Regulatory Review:

- Outline of Final Report. February, 2006.
- Summary of All Previous Work. April, 2006.
- Discussion of Major Issues and Results of Sensitivity Analysis. August, 2006.

Rapid Deployment Support Systems:**Feasibility Assessment of Short Sea Shipping to Service the Pacific Coast:**

- Cargo Flows and Trade Lane Analysis. April, 2006.
- Current Road and Rail Transport Options. April, 2006.
- Potential Users of Short Sea Shipping. May, 2006.

Decision Support Tools/Command and Control:**Strategic Mobility 21:**

- Project Management Plan Annex A – Initial Capabilities Document (ICD) type Technical Report. July, 2006.

Program Management and Technical Oversight:

Technology Coordination and Planning:

- Initial FY'05 Program Plan. May, 2005.
- CCDoTT Summary Work Program: 1995–2005. September, 2005.
- “Transportation Technologies Center Named for James Ackerman”. 2004-05 Annual Report. CSULB Foundation, Long Beach, CA. p. 18. December 2005.
- “Cal State Long Beach to Receive \$4.2 Million from U.S. Department of Defense to Support Center for Commercial Deployment of Transportation Technologies”. Press Release #2006-074. Office of Public Affairs, CSULB, Long Beach, CA January, 2006.
- CCDoTT Interim Progress Report to RADM Purcell on PNW AP Demo. March, 2006.
- “*CSULB Receives \$4.2 Million Grant For CCDoTT*”. Inside CSULB. CSULB University Relations and Development, Vol 58 No. 3. March, 2006.
- FY 2005 Final Program Plan. May, 2006.

Technology Transition and Outreach:

- SNAME Maritime Technology Conference presentation. October, 2005.
- PNW AP Demo and SM21 presentations to High Speed Ship/Agile Port Action Officer’s Group. November, 2005.
- CCDoTT, PNW AP Demo and SM21 presentations to USTRANSCOM J5. January, 2006.
- USMMA Department of Engineering presentation. April, 2006.
- CCDoTT Program Review presentations (10). June, 2006.
- CCDoTT FY05 Program Poster. June, 2006.
- CCDoTT FY05 generic presentation to adapt to multiple venues. July 2006.
- CCDoTT FY05 Project Fact Sheets (2).

2004 Program Elements

Agile Port and Terminal Systems:

Feasibility of a High-Speed intermodal Corridor for Port of Los Angeles/Long Beach:

- Preliminary Presentation. February, 2005.
- Technical Feasibility and Construction / Operational Cost Estimate Report. March, 2005.
- Economic Feasibility Report. August, 2005.
- Institutional/Community Support Feasibility Report. August, 2005.
- Summary Presentation. August, 2005.
- Slide Archive. August, 2005.
- Final Report - Feasibility of a High-Speed intermodal Corridor for Port of LA/LB. August, 2005.

Concept Design Development of a Very Stable Mobile Ocean Platform:

- Computer Tool Development. August, 2005.
- Report on Target Applications. February, 2005.

- Scaling Analysis and Structural Design. August, 2005.
- Test Tank Model. Base Case Model Test Report. May, 2005.
- Comparison with Competing Technologies. August, 2005.
- Model Basin Testing. August, 2005.
- Ocean Scale Baseline Platform. August, 2005.
- Final Project Report. August, 2005.

High Speed Ship Systems:

Automated Multidisciplinary Design Optimization Method for Multi-Hull Vessels:

- Automated Hydrodynamic Shape Optimization Using Neural Networks. Paper presented to Society of Naval Architects and Marine Engineers (SNAME) Annual Meeting, October, 2004.
- Automated Optimization Using Neural Networks. Presentation for Boeing Distinguished Researcher and Scholar Seminar Series (B-DRASS). October, 2004.
- Mid Project Report - Synthesis Trimaran Mathematical Model. March, 2005.
- Optimization Software, v.1 - Automated Multidisciplinary Design Optimization Method for Multi-Hull Vessels. August, 2005.
- User Manual, v.1 - Automated Multidisciplinary Design Optimization Method for Multi-Hull Vessels. August, 2005.
- Final Report. Automated Multidisciplinary Design Optimization Method for Multi-Hull Vessels. August, 2005.

Model Test and Evaluation of an Advanced Axial Flow Waterjet Pump Designed for the Coastal Commercial Ship Sealift Application:

- Status Report: Selection of Water Tunnel. October, 2004.
- Status Report: Contract Award and Model Components. December, 2004.
- Drawing Package of Model and Set-up Components. January, 2005.
- Status Report: Water Tunnel Pump Model Test Plan. February, 2005.
- Status Report: Model and Test Equipment Preparation. March, 2005.
- Status Report: Axial-Flow Pump Model Testing. April, 2005.
- Status Report: Data Analysis and Correlation. July, 2005.
- Final Report: Model Test And Evaluation Of An Advanced Axial-Flow Waterjet Pump. August, 2005.

High Speed Trimaran (HST) Technology Development:

- Concept of Operations Analysis. November, 2004.
- Matrix of Concepts and Configuration Development. November, 2004.
- SAIC-LM Aero Heavy Airlift Seabasing Ship (HALSS) Concept. Presentation to ASNE Joint Sea Basing Conference. January 2005.
- Technical Requirements and Feasibility Analysis Report - Concept Evaluation of Large HST. February, 2005.
- Resistance Prediction and Hull Forms Optimization. February 2005.

- Robert J. vom Saal, Igor Mizine, Laurent Deschamps, Richard W. Thorpe. “Dual Use Short Sea Shipping Trimaran Trailership HSTT-180”. *Marine Technology*. Society of Naval Architects and Marine Engineers. Vol. 42, No. 3, July 2005, pp. 132–143.
- Trade-Off Analysis Report - High Speed Trimaran Hydrodynamic Design, Drag Reduction and Hull-Waterjet Interaction Analysis. July, 2005.
- Design Description Report. Propulsion System Arrangement and Design Evaluation. July, 2005.
- Structural and Cost Report - Structural Design, Costing and Build Strategy Evaluation. August, 2005.
- Design Drawings and Final Report - Technology and Design Information Package and Final Report. August, 2005.

Advanced Technology Military Sealift / Commercial Express Pentamaran Ship Design:

- Updated Commercial Design. March, 2006.
- Military Ro/Ro Design. March, 2006.
- Technical Presentation and Meeting Documentation. March, 2006.
- Draft Cost Analysis and Operational Feasibility Report. May, 2006.
- Final Report and Final Technical Presentation. May, 2006.

Rapid Deployment Support Systems:

Military and Commercial Agile Supply Network Optimization and Security:

- Strategic Mobility 21 – Joint Force Deployment and Distribution Demonstration. (Generic ASN/SM21 presentation to adapt to multiple venues). October, 2004.
- Operational Concept Document (OCD): Strategic Mobility 21 - Network Centric Joint Force Deployment and Distribution Process Advanced Logistics Technology Demonstration (ALTD) Joint Operational Concept. August, 2005.
- OCD Annex A: Agile Support System Information Technology Architecture Relational Database Design. Attachment: Electronic Data Interchange Message Sets. May, 2005.
- OCD Annex B: Military Surge Deployment Parameters and Attributes Analysis. May, 2005.
- OCD Annex C: RFID Sensor Integration into Agile Port System Information Technology Architecture. May, 2005.
- OCD Annex D: Rail Agile Port Network Model Integration Plan. May, 2005.
- OCD Annex E: Agile Port Design Parameters. August, 2005.
- Force Protection Test Protocol. August, 2005.
- Final Report: Military and Commercial Agile Supply Network Optimization and Security. August, 2005.

Program Management and Technical Oversight:

Technology Coordination and Planning:

- Initial FY'04 Program Plan. June, 2004.
- Final FY'04 Program Plan. August, 2004.
- CCDoTT Summary Work Program: 1995–2004. September, 2004.

- Preliminary FY'05 Program Plan. July, 2005.
- Preliminary FY'06 Program Plan, Candidate Initiatives. July, 2005.
- FY 2005 Program Recommendation (End Year Annual Plan). December, 2005.
- FY04 Final Summary Report Vol. I - Projects 3 through 8. December, 2005.

Technology Transition and Outreach:

- HSS/AP Action Officers Group presentation, September 2004.
- Pacific Northwest Agile Port Demonstration DVD, November 2004.
- HSS/AP Executive Steering Committee presentation, December 2004.
- CCDoTT Affiliations document, December 2004.
- Congressman Dana Rohrabacher presentation, December 2004.
- Preliminary "CCDoTT Scorecard" for Advisory Committee. January 2005.
- CCDoTT Participation Report for MARAD R&D Programs, Research and Innovative Technology Administration (RITA). March, 2005.
- CCDoTT Trimaran, Axial Waterjet and CFD/MDO Projects presentation for Panel on Advanced Marine Vehicles, International Hydrofoil Society. March, 2005.
- Technology Transition Plan – Current Year. March, 2005.
- CCDoTT FY'04 Project Fact Sheets (8). March, 2005.
- CCDoTT FY'04 Program Review presentations (8). March, 2005.
- CCDoTT East Coast Conference Summary Report. April 2005.
- Let Us Have Maglev!. Op/Ed article, Long Beach Press Telegram, May 8, 2005.
- Seaborne Composite Coalition presentation. May, 2005.
- University Looks at Levitating Containers to Inland Port. *The Cunningham Report*. Vol. 10, No. 27. July 4, 2005.
- Challenges to Building Maglev Cargo System. *The Cunningham Report*. Vol. 10, No. 27. July 4, 2005.
- CCDoTT Pacific Northwest Agile Port Projects Briefing Paper. July, 2005.
- IMPACT 2005 Conference presentations (13). November, 2005.
- CCDoTT FY04 Project Poster. June, 2006.

2003 Program Elements

Agile Port and Terminal Systems:

Pacific Northwest Agile Port System Demonstration Plan:

- Presentation Material – Presentation for Follow-on Contract Summary. November, 2004.
- Contract Summary Report – Pacific Northwest Agile Port System Demonstration Plan. November, 2004.

2002 Program Elements

Agile Ports and Terminal Systems:

Hazardous Material Detection and Technology Assessment and Demonstration:

- Report on HazMat Needs Analysis. April 2003.
- Report on Research of Technical Solutions. July 2003.
- Proof of Concept Demonstration Plan. July 2003
- After Action Report on Proof of Concept Demonstration. September 2003.
- Contract Summary Report. September 2003.

Port of Entry and Exit Inspection Process and Technology Infrastructure, Phase III:

- Seaport Inspection Process and Technology Model and Database Description. August 2003.
- Demonstration Plan Prototype: Seaport Inspection Process and Technology Model. September 2003.
- Software Test Report: Verification Report. September 2003.
- Test Inspection Report: Seaport Inspection Process and Technology Model. September 2003.
- Final Report – Test Inspection Report: Seaport Inspection Process and Technology Model. September 2003.
- Summary Report for Public Distribution. October 2004.

CCDoTT Stakeholder Education and Technology Transfer:

- Management Plan: Technology Demonstration Plan. July 2003.
- IMPACT 2003 Conference presentations (12). October 2003.
- Test/Inspection Report Technology Transfer Demonstration Report (IMPACT 2003 Summary Report). October 2003.

Increasing the Efficiency of Empty Container Interchange:

- Software Product End Items – Dynamic Container Movement Model. August 2003.
- Methods for Modeling and Routing Empty Containers in the Los Angeles and Long Beach Port Area. August 2003.
- Jula, Hossein; Chassiakos, Anastasios; and Ioannou, Petros. “Port Dynamic Empty Container Reuse”. *Transportation Research, Part E: Logistics and Transportation Review*., vol. 42.,pp. 43-60, January 2006.

Container Seal Technologies and Processes, Phase I:

- E-Seals Test Plan. May 2003.
- E-Seals Technical Report of Test-Bed Seal Performance. August 2003.
- E-Seals Simulation Report. August 2003.
- Final Report. September 2003.

High-Speed Sealift Technologies:

Computational Fluid Dynamic (CFD) Design Tool Development and Validation:

- Software Product End Items – CFD Tools. September 2003.
- Software Product End Items – Optimization Tools. September 2003.
- Software Product End Items – CAD Tools. September 2003.
- CFD Tools Test Report. September 2003.
- Optimization Tools Test Report. September 2003.
- CAD Tools Test Report. September 2003.
- Final Report – Optimization Runs and Overview of Work. December 2003.

Blended Wing Body Design and Construction:

- Blended Wing Body Engineering Drawings. July 2004.
- Blended Wing Body Technical Report. July 2004.
- Blended Wing Body Test Report. July 2004.

Liberty Class Initial Ship Design:

- Scale Model Test Plan. August 2003.
- Software Product End Items - Update to Global Finite Element Model.

Preliminary Design Package – 200m VHSST:

- Preliminary Hull Design and Analysis for VHSST-200. September 2003.
- VHSST-200/SSS-SRT Design Booklet. September 2003.
- VHSST-200 Structural Design Report. September 2003.
- VHSST-200/SSS SRT Building Cost Estimate. September 2003.

Preliminary Design Package – 330m VHSST:

- Structural Calculations Report. August 2003.
- Supplemental Calculations – Intact and Damage Stability. August 2003.
- Design Booklet. August 2003.

Development of an Advanced Waterjet Propulsor Concept for High-Speed Sealift Applications, Phase II:

- System Trade-Off Analysis to Select Hull and Most Promising Waterjet Propulsion System. May 2003.
- Waterjet Propulsor Design. Waterjet Pump and Nozzle Assembly Designed for Main Propulsion of an Advanced 50-Knot Monohull Cargo Ship. September 2003.

Test Plan:

- Test Plan for Water Tunnel Evaluation of a Scale Model Axial-Flow Waterjet Pump Designed for High-Speed Sealift Applications. September 2003.
- Test Plan for Model Self-Propulsion Evaluation of an Axial-Flow Propulsor Designed for High-Speed Sealift Applications. September 2003.

Waterjet Propulsor Drawings:

- Detail Design Drawing Package for Water Tunnel Evaluation of a Scale Model Axial-Flow Waterjet Pump Designed for High-Speed Sealift Applications. September 2003.

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- Detail Design Drawing Package for Model Self-Propulsion Evaluation of a Scale Model Axial-Flow Waterjet Pump Designed for High-Speed Sealift Applications. September 2003.
- Conceptual Design Drawing Package of an Integrated Hull and Advanced Propulsion System for High-Speed Sealift Applications. September 2003.
- Development of a High-Speed Sealift Waterjet Propulsion System. September 2003.

On Demand Hydrogen Generating System: Phase II – System Demonstration:

- System/Subsystem Design Description – On-Demand Hydrogen Design. September 2003.
- Design Build Install Process Report. September 2003.
- Field Testing Plan. September 2003.
- System Fabrication and Installation Report. September 2003.
- System/Endurance Field Test Report. September 2003.
- Technical Report – Field Operations. September 2003.

Operational, Economic and Financial Evaluation of a Logistics Solution Based on the High Speed Ship / Agile Port Concept:

- Software Product End Items – High Speed Shipping Model. August 2003.
- Logistics Analysis. August 2003.
- Infrastructure Analysis. April 2003.
- Supply Chain Analysis. August 2003.
- Economic and Financial Analysis. August 2003.
- Final Summary Report. August 2003.

Rapid Deployment Technologies:**Optimization of Military and Commercial Goods Movement Through Southern California Using Information Technology, Phase II:**

- Test Inspection Report: Reality-Based Simulation Demonstration and Model Validation. September 2003.
- Reality-Based Simulation Demonstration Results Using Military and Commercial Cargo Movement Information. September 2003.
- Test Plan: To Extend the Regional Supply Chain Simulation (RSCS) Model to Represent a C4I Command and Control System for Military Cargo Movement in a Deployment Application Using Artificial Intelligence and Demonstration Plan. September 2003.

Decision Support Tools:**Transportation Internet Portal Development Phase II – Feasibility Demonstration:**

- Software Product End Items - Transportation Internet Portal Demonstration Scenario Development. March 2003.
- Establish/Design Simulated Private Network. June 2003.
- Demonstration Test Report. September 2003.
- Operating Procedures and Technical Specifications – VISA Prototype Network Design. September 2003.

Command and Control Decision Community:

Software Product End Items:

- RCSC Upgraded Transportation Visualizer Model – Release 1.0. June 2003.
- RCSC Upgraded Transportation Visualizer Model – Release 1.1. August 2003.
- Transportation Visualizer (TransViz) Executive Summary: Enabling the Transporter. September 2003.

Command and Control Decision Community, Part 2:

Software Product End Items:

- AT21 Upgraded Transportation Visualizer Model – Release 2.0. August 2003.
- AT21 Upgraded Transportation Visualizer Model – Release 2.1. August 2003.
- AT21 Upgraded Transportation Visualizer Model – Release 3.0. September 2003.
- AT21 TransViz within Info Workspace (IWS). August 2003.
- AT21 TransViz within Defense Collaboration Tool Suite (DCTS). September 2003.

Software User Manuals:

- Release 2.0. August 2003.
- Release 2.1. August 2003.
- Release 3.0. September 2003.
- Info Workspace (IWS). August 2003.
- Defense Collaboration Tool Suite (DCTS). September 2003.

Software Development Plans:

- Software Development Plan to Integrate the Collaboration Requirement into the AT21 NEXGEN Architecture. September 2003.
- Software Development Plan of AT21 TransViz Implementation within IWS and DCTS. September 2003.

Test Plans:

- AT21 Test Plan. August 2003.
- AT21 Non-Workspace Test Plan. August 2003.
- Software Transition Plan. September 2003.
- Inspection Report for AT21 First Year Demonstration. August 2003.
- Transportation Visualizer (TransViz) Executive Summary: Enabling the Transporter. September 2003.

Program Management and Technical Oversight:

Program Management and Technical Oversight:

- Technical Program for FY 2004 and Strategic Planning Process Statement of Management Direction. September 2003.
- Three Year Strategic Plan FY 2004–FY 2006. September 2003.

2001 Program ElementsAgile Ports and Terminal Systems:

TrAMS: Automating Hazardous Materials Documentation for Military Shipments:

- Report of “As Is” and “To Be” Analysis. November 2001.
- Report of Potential Military and/or Commercial Solutions. December 2001.
- Conduct Proof of Concept Demonstrations of Potential Solutions. January 2002.
- Evaluation Report of Potential Solutions Assessed in Proof-of-Concept Demonstration. January 2002.
- Final Report of Recommendations. March 2002.

Efficient Marine Terminal Full Scale Demonstration:

- Efficient Marine Terminal Full Scale Demonstration. September 2003.
- Efficient Marine Terminal Full Scale Demonstration Video. May 2004.

Port of Entry Inspection Technology Infrastructure Project, Phase II Final Report. March 2003.

In-Situ Engine Emissions Testing and Comparison for a High Speed Ferry and Competing Land Transit Vehicles – Phase I Final Report. June 2002.

High-Speed Sealift Technologies:

Computational Fluid Dynamic (CFD) Design Tool Development and Validation:

- CFD Part 1. January 2003.
- CFD Part 2 – At Sea, Validating Scale Model Tests. January 2003.
- CFD Part 3 – Naval Architecture and Engineering of a Fast Passenger Ferry:
 - Concept Design Report. November 2001.
 - Preliminary Design Report. January 2002.
 - Flight Control System Design Report. June 2002.

Economic Analysis of Alternative Powering Concepts for High-Speed Ships, Phase II:

- Initial Economic Assessment. April 2003.
- Socio-Political Risk Assessment. April 2003.

Very High-Speed Trimaran (VHST) Technology Elements Development:

- Intermediate Technical Report. December 2002.
- CFD Investigation: Numerical Analysis and Model Tests. January 2003.
- Design Booklets:
 - Concept Design for a Dual Use 38 Knots Monohull Ropax Ship. January 2003.
 - Concept Design for a Dual Use Very High Speed Trimaran RoPax Ship, VHSTR 40 Knots 300MW Propulsion Power. February 2003.
- Stability Report: Dual Use Very High Speed Trimaran Ropax Ship (VHSTR) Intact and Damage Stability Calculations. February 2003.
- Preliminary Structural Design/ February 2003.

- Hullform Development of the Dual Use High Speed Trimaran Cruise Ship. February 2003.

Comprehensive Assessment of High-Speed Waterjet Propulsors for Commercial and Sealift Applications: Final Report. August 2002.

Development of a Route or Mission Dependent Approach for the Calculation of Rational Structural Dynamic Loads for High Speed Multi-Hulls, Phase I: Final Report. October 2002.

On Demand Hydrogen Generating System Concept Development, Phase I: Final Report. September 2002.

Rapid Deployment Technologies:

Cargo, Equipment Tracking and Identification Technology Demonstration: Container Seal Technologies and Processes:

- Set of System Requirements - Report on Industry Requirements for Electronic Container Seals. August 2002.
- Summary of Existing, Emerging and Proposed Seal Types; Report of the Utility of Different Seal Types - Report on Electronic Container Seal Technologies. August 2002.

Market Assessment for High-Speed Ship/Agile Port Concept:

- Commercial Supply Chain Analysis – Analysis of the Impact on Commercial Supply Chains in the Transpacific Trade. December 2001.
- Diversion Analysis – High-Speed Ship/Agile Port Potential Market: Transpacific Trade. January 2002.
- Military Supply Chain Analysis – High Speed Ship/Agile Port: Potential Military Applications in the Transpacific. June 2002.
- Final Report – The High-Speed Ship/Agile Port System in the Commercial/Military Market. June 2002.

High-Speed Ferries and Coastwise Vessels Part II: Analyses of Coastal Freight Market and Impact on Coastal Highways:

- Draft Business Plan - High Speed Ferry and Coastwise Vessels: Assessment of a New York / Boston Service. May 2003.
- Workshop Documentation and Final Report - High Speed Ferry and Coastwise Vessels: Assessment of a New York / Boston Service: Final Report. June 2003.

Optimization of Military and Commercial Goods Movement, Phase I:

- Information Technology Survey Report. December 2002.
- Year 2002 Shipper Information Technology Survey Questionnaire. January 2003.
- Preliminary Regional Supply Chain Database Design and Simulation Model. January 2003.
- Phase I Final Report. September 2003.

Command and Control Technologies:

Agile Port Demonstration Node of Collaborative Visualization Software:

- Agile Port Demonstrator Node (APDN) MidYear Report: Requirements Specification Version 1.0. October 2002.
- Software and User Documentation – CSULB/COE Collaborative Visualization. August 2003.

CCDoTT/USTRANSCOM Command and Control Program Broad Vision, Software Design and Functional Prototype:

- Draft Technical Requirements Document. March 2002.
- Draft User and Functional Requirements Document. April 2002.
- Draft Scenarios for Program Vision Document. May 2002.
- AT2000 Concept of Operations Briefing. September 2002.
- Decision Community Design Diagram. July 2002.
- Draft Software Design Version 1 Document. August 2002.
- Draft Software Design Version 2 Document. December 2002.
- Software Prototype Version 1 Demonstration. September 2002.
- Software Prototype Version 2 Demonstration. November 2002.
- Final Demonstration of Software Prototype Version 3. December 2002.
- Final Report: Leave-behind Presentation. January 2003.

2000 Program Elements

Agile Ports and Terminal Systems:

Transportation Automated Measurement System (TrAMS): Report Analyzing Survey vs. Requirements and Recommendation of Final Requirements. May 2001.

Agile Port Conceptual Design and Development – Regional Assessment: Pacific Northwest Agile Port System Analysis Final Report. December 2002.

Efficient Marine Terminal (EMT) Demonstration Plan: Final Report. December 2002.

Computer Simulation and Visualization of an Integrated Automated Container Terminal (IACT) with Optimal Planning and Scheduling – Planning Stage: Final Report. August 2001.

Dynamic Simulation of Ports and Intermodal Systems Rapid Responses to Emergency Strategic Disruptions of Commercial Operation: Phases 4 and 5:

- Define Operational Interface between Commercial and Military Port Cargo Flows. Interim Report. July 2000.
- Develop Local Street, Road and Rail Routing Programming Elements. Final Report. February 2002.

Inspection Technology Phase I Report: Deconstructing the Pre-Technology Driven Paradigm for Border Security: A Survey of Port of Entry and Exit Inspection Process and Technology. May 2002.

High-Speed Sealift Technologies:

Computational Fluid Dynamic (CFD) Design Tool Development and Validation. February 2002.

Interim Progress Report on the Economic Analysis of Alternative Powering Concepts for High-Speed Ships. November 2001.

Alternative Powering of Mid-Size and Smaller High-Speed Vessels:

Alternative Powering for Merchant Ships:

- Current and Forecast Powering Needs. September 2001.
- Survey of Available Alternative Powerplants for Container Ships. September 2001.
- Economic Analysis of Powering Alternatives. December 2001.

Pentamaran Seakeeping and Maneuverability at High Froude Number:

- Seakeeping and Maneuvering Tests Pentamaran Ferry. August 2001.
- Analysis of Ship Motions High Speed Pentamaran Ferry. October 2001.

Lessons Learned Report for Very High Speed Sealift Trimaran (VHSST) Technology Elements Development. June 2001.

Examination of Advanced Hullform and Propulsion System Options for Fast Military Sealift Innovation Cell at NAVSEA Carderock. April 2001.

Database of Planned and Current High-Speed Ships:

- Potential Upgrades to Commercial High Speed Ship (HSS) Database. July 2001.
- HSS Database Update, 10/1/99–10/31/00. July 2001.

Rapid Deployment Technologies:

Cargo Equipment Tracking and Identification Demonstrations: Chassis Tag Location:

- CHCP Program Overview: Cargo Equipment Tracking and Identification Technologies. August 2001.
- Chassis Tag Location Project: Test and Demonstration Plan. August 2001.
- Chassis Identification Technology Project. December 2001.

Pacific Rim High-Speed Ship Commercial and Military Market Assessment. Potential Demand for High Speed Ship/Agile Port Service: The Case of the Transpacific. May 2001.

Pacific Rim High Speed Ocean Freight Marketing Study, Phase I. Pacific Rim High Speed Ocean Freight Market Interim Report; High Speed Surface (HSS) Ocean Transportation and Supply Chain Agility: A Major Consumer Needs Analysis Based Upon Shipper Supply Chain Mapping and Simulation. September 2001.

High Speed Ferries and Coastwise Vessels: Evaluation of Parameters and Markets for Application:

- Interim Report. October 2001.
- Final Report. January 2002.

Command and Control Technologies:

Transportation Internet Portal (TIP) Development:

- TIP Development Functional Concept Document. January 2002.
- TIP Development Software Architecture. January 2002.

Program Management, Technical Oversight, Website and Publications:

Program Management, Technical Oversight, Website and Publications:

- CCDoTT Strategic Plan Update. January 2002.
- CCDoTT Balanced Scorecard/Strategic Plan Summary. January 2002.
- CCDoTT Promotional Brochure. January 2002.
- CCDoTT FY 2001 Master Schedule. January 2002.

1998 Program Elements

Agile Ports and Terminal Systems:

Advanced Material Handling-Automatic Guidance of Vehicles in Agile Ports:

- Final Report. January 2001.
- Documentation for the Simulation Software Package Conterm-Sim. January 2001.

Real Time Testing and Verification of Loading and Unloading Algorithms Using Grid Rail (GRAIL):

- Preliminary Design of GRAIL. April 2001.
- Final Report. January 2001.
- Documentation for the GR Unit Simulation Software: GRSIM. January 2001.
- GRAIL JAVA Simulation Model. April 2001.

Development of a Validated Design of an Agile Port Employing the Integrated Automated Container Terminal (IACT) Concept: Phase I Final Report. September 2000.

Demonstration and Commercialization of Direct Access Rail to Ship (DARTS) Intermodal Transfer, Chassis Positioning and Robotics:

- Demonstration and Commercialization of the Direct Access Rail to Ship (DARTS) System. February 2001.
- Design Specification for the Chassis Positioning System. January 2001.
- Software Requirements Specification for the Chassis Positioning System. January 2001.
- (Reduced) As Built Drawings for the Chassis Positioning System 2000 (SVS). November 2000.
- Evaluation of Central Control of Mobile Robots for Port Cargo Handling. December 2000.

Dynamic Simulation of Ports and Intermodal Systems Rapid Responses to Emergency Disruption:

- Dynamic Simulations of Ports and Intermodal Systems Rapid Responses to Emergency Disruption: Port Terminal Allocation within a Single Port (Phase 2) and Multi-Port Allocation within a Coastal Range (Phase 3). July 2000
- REDS Software Model. October 2000.

Full Scale Efficient Marine Terminal (EMT) Demonstration Requirements:

- Intermodal Interface Center (IIC) Marine-Rail Interface Model Summary Report. November 2001.
- Report Addendum: IIC Simulation Model Installation and Operation Description. December 2001.
- Summary of Outreach: Pacific Northwest Systems Development. November 2000.
- Development of Demonstration Requirements. June 2001.
- Full Scale Efficient Marine Terminal Demonstration Project Requirements. January 2000.

Technical Evaluation and Cost Analysis of Port Operations in Remote Areas:

- Remote Port Function Integration Analysis. January 2001.
- Summary Report for Remote Port Technology Reviews and Demonstrations. July 2000.
- Remote Port Technology Feasibility Studies: Conceptual Technologies with Potential for Improving Force Deployment. December 2000.
- Cost Summary for Possible Remote Port Improvements. September 2000.
- High Level Concept Document for Port Capabilities Analysis and Port Selection Tool (PCAST). December 2000.
- Final Report for Possible Improvements for Remote Port Operations. July 2000.

High-Speed Sealift Technologies:

Fast Ship Conference (Fast '99), August 29 – September 2, 1999. Seattle, WA.

Conference Papers:

- CCDoTT Transportation Automated Measurement System (TrAMS) and Fast Ship Development at CSULB. July 1999.
- The Cost Benefit of Emerging Technologies Using Physics-Based Ship Design Synthesis. August 1999.

Center for the Commercial Deployment of Transportation Technologies

- High-Speed Sealift Platform Evaluation and Analysis - Spring 98: The INCAT 046. July 1999.
- Potential DoD Use of Commercial High-Speed Sealift (2000-2010). July 1999.
- Materials Considerations for High-Speed Ships. July 1999.
- High-Speed Coastal Transport Emergence in the U.S. July 1999.

High Speed Sealift (HSS) Ship Configuration and Design Requirements:

- Shore Based Ramp Systems, July 2000.
- HSS Monohull, Multihull and Air Cushion Tables, July 2000.

High Speed Sealift (HSS) Market Opportunity Study: Summary of Findings from Shippers. September 2000.

A Study of the Economic Viability of High Speed Ocean Shipping. September 2000.

Advanced Vessel Technologies:

- High Speed Sealift Design Evaluation and Analysis. Analyze and Evaluate High Speed Sealift Current Designs; Analyze and Evaluate Current and Recent Research on High Speed Sealift Design Issues. September 2000.
- Develop Technical Plan for Development and Implementation of Advanced HSS Technology Systems; Develop Technical Plan for Implementation of Advanced HSS Shipbuilding Technology. September 2000.
- High Speed Sealift Construction Evaluation and Analysis. Assess Global and Domestic Shipbuilding Requirements for High Speed Ship Systems; Evaluate Barriers to High Speed Ship Fabrication. September 2000.

High Speed Sealift Platform Evaluation and Analysis:

- High Speed Sealift Platform Evaluation and Analysis Program: Goals, Objectives, Contracting and Institutional Issues. February 1999.
- High Speed Sealift Platform Evaluation and Analysis-Spring '98: Instrumentation and Operational Characteristics of the International Catamaran 91-Meter Wave Piercing Catamaran. February 1999.

Very High-Speed Sealift Trimaran (VHSST) Concept Development:

- Design Drawings: Concept Development Very High Speed Sealift Trimaran. General Arrangement VHSST-50 Side Hull. January 2000.
- VHSST Waterjet Sizing Study. March 2000.
- Kvaerner Masa Marine Inc. High Speed Trimaran Hull Parametric Resistance Configuration Experiments. April 2000.
- Lessons Learned Report for VHSST Concept Development. July 2000.

Rapid Deployment Technologies:

Combat Projection and Force Sustainment by Sea-Based Port. September 2000.

Project Plan: European Cargo and Equipment Tracking Demonstration. September 1999.

Preliminary Operational Concept Document for Command Center of the Future (CCF):
Technologies for Transportation Command and Control. January 2001.

High Speed Ferries and Coastwise Vessels: Evaluation of Parameters and Markets for
Application. October 2000.

1997 Program Elements

Agile Ports:

Transportation Automated Measurement System (TrAMS):

- CCDoTT Transportation Automated Measurement System (TrAMS) and Fast Ship Development at CSULB. July 1999.
- TrAMS Profilometer Site Plan Drawings. January 1998.
- TrAMS Design Documentation. July 1998.
- TrAMS Electrical Drawings. June 1998
- TrAMS Instructor's Manual. 1998.
- Cost Estimate of Model. June 1998.
- TrAMS Safety and Environmental Certification Plan. May 1998.
- Final Technical Report. August 1998.

Global Agile Port Review: Port Operations: A Review of Practices. March 2000.

Global Definition of Port Agility. February 2001.

Select and Evaluate State of the Art Cargo Handling Technologies: Cargo Handling
Technologies Final Report. October 2000.

Comparison of Attributes and Characteristics of Strategic Ports to Agile Port Models. February
1999.

Economic Models of Agile Port and Intermodal Transfer Configuration, Phase I. October 2000.

Dynamic Simulation of Ports and Intermodal Systems Rapid Responses to Emergency Strategic
Disruptions of Commercial Operations: Phase I, Literature Review and Scoping of Research.
August 2000.

Marine Rail-Interface (Inland Port Concept Demonstration):

- Definition of Inland Port Operations: Agile Port Concept Document. June 1999.
- Computer Simulation. June 1999.
- Simulation Analysis: Agile Port Concept Presentation. July 1999.
- Marine Terminal Productivity Measures. November 2000.

Technical Evaluation and Cost Analysis of Port Operations in Remote Areas: Remote Port
Survey: A Roadmap for Improvement. July 1999.

Improved Methods of Airlift/Sealift Cargo Handling - Load-By-Wire. October 2000.

High Speed Sealift:

Carrier Survey and Interview Guide. December 1998.

High Speed Sealift Technology Workshop October 21-23, 1997, NSWC Carderock, MD:

- Total Ship Systems Engineering Directorate Technology Projection Report: High Speed Sealift Technology. September 1998.

High Speed Ship Market/Economic Issues Meeting. October 8, 1997, LMI, Tyson's Corner VA:

- High Speed Ship Market/Economic Issues Meeting, November 1997.

Implications of the Voluntary Intermodal Sealift Agreement (VISA) for High Speed Ships and their Agile Terminal and Intermodal Facilities. August 1998

Potential DOD Use of Commercial High-Speed Sealift. March 1999.

Current and Planned Capabilities of Commercial High-Speed Ships. March, 1999.

An Assessment of Current and Planned Capabilities of Commercial High-Speed Ships. May 1999.

Overview-Potential DOD Use of Commercial High-Speed Sealift (2000-2010). June 1999.

High-Speed Ferries and Coastwise Vessels: Evaluation of Parameters and Markets for Application – Phase I. February 2001.

CCDoTT Strategic Plan. March 1999.

1995-1996 Program Elements

High Speed Sealift/Agile Port Operational Concept Document. April 1997.

Study to Accompany High-Speed Sealift/Agile Port Operational Concept Document. August 1997.

Advanced Technologies for Transportation Applications Technical Report. August 1997.

Just-In-Time (JIT) Command and Control (C2) Technical Report/Simulation. July 1997.

Cargo Identification Report and Profilometry Demonstration Comparison of Attributes and Characteristics of Strategic Ports to Agile Port Models. July 1997.

Equipment Evaluation Report. July 1997.

TrAMS Profilometer System Design Specification. April 1997.

TrAMS Profilometer System Design Specification - Supplement 1. June 1997.

- Stereovision and telepresence demonstration – March 2000.
- Advanced wireless and cargo equipment tracking demonstration – August 1999. Port of Charleston, SC.

Very High-Speed Sealift Trimaran (VHSST) Concept Development:

- Resistance and headseas test/demonstration of scale model VHSST – December 18–22, 1999. David Taylor Research Center, NSWC Carderock, MD.

High Speed Sealift Platform Evaluation and Analysis:

- Operational evaluation/demonstration of the International Catamaran (INCAT) 046 91-Meter Wave Piercing Catamaran – June 9, 1998. Bar Harbor, ME.
- Instrumented data collection/demonstration of the INCAT 046 – April 26-May 20, 1998. Hobart, Tasmania Australia to Yarmouth, Nova Scotia, Canada.

European Cargo and Equipment Tracking Demonstrations:

- Commercial demonstration of the European Logistics (EURO-LOG) tracking system and integration of Automatic Identification Technology (AIT) – July 20-21, 1999. Combat Equipment Storage Site (CEG-E), Branssum, Netherlands.
- Military demonstration of EURO-LOG and AIT integration – July 22-23, 1999. 37th Transportation Group, Kaiserslautern, Germany.

1997 Program Elements

Transportation Automated Measurement System (TrAMS):

- TrAMS demonstration – November 7, 2000. CSULB, Long Beach, CA.
- Executive Level TrAMS test and demonstration – June 18, 1998. XVIII Airborne Corps., Ft. Bragg, Fayetteville, NC.
- Full scale TrAMS demonstration – June 8, 1998. XVIII Airborne Corps., Ft. Bragg, Fayetteville, NC.
- Individual technology component demonstration - April 7, 1998. Concurrent Technologies Corporation, Johnstown, PA.

Marine Rail-Interface (Inland Port Concept Demonstration):

- Simulation/demonstration of waterside EMT facility with truck logic. – June 29, 1999. MARAD, Washington DC.

Improved Methods of Airlift/Sealift Cargo Handling - Load-By-Wire.

- Container Crane System C-17 model display/demonstration – January 1999. Cargo Handling Convention, Long Beach, CA.
- Container Crane System C-17 model demonstration – November 20, 1998. The Boeing Company, Long Beach, CA.

1995-1996 Program Elements

Advanced Technologies for Transportation:

- Low Earth Orbit (LEO) Satellite demonstration – September 23-24, 1997. CSULB, Long Beach, CA.

Cargo Identification Technical Report/Profilometry Demonstrations:

- TrAMS 1/10 scale demonstrations – March 26, 1996. CSULB, Long Beach.
- 3-D commercial laser scanner demonstration – March 26, 1996. CSULB, Long Beach.

Command and Control Technical Report/Simulation:

- Just-In-Time/PAL++ simulation demonstration – December 19, 1995. BTG, San Diego, CA.

CCDoTT Conferences and Workshops (1995 – 2006)

September 1, 2005 through August 31, 2006 Reporting Period

Documentation and presentation materials available online at www.ccdott.org

1. CCDoTT Hosted:

2006:

- CSULB Faculty Review Session of CCDoTT FY06 2-Page Submittals - August 23, 2006, CSULB College of Engineering, Long Beach, CA.
- CSULB Marine Air Emissions Demonstration initial project team meeting - August 16, 2006, CCDoTT offices, Long Beach, CA.
- CCDoTT/Maglev briefing for John Haveman of the Public Policy Institute – August 11, 2006, CSULB Foundation, Long Beach, CA
- CCDoTT/Maglev briefing for Tom Politeo of the Sierra Club, Angeles Chapter - August 7, 2006, CCDoTT offices, Long Beach, CA.
- SM21 FY05 Regional Government Stakeholder Workshop - July 20, 2006, Cal State University San Bernardino, San Bernardino, CA.
- SM21 FY05 Regional Commercial Stakeholder Workshop - July 19, 2006. Cal State University San Bernardino, San Bernardino, CA.
- CCDoTT FY06 Port Disruption Project Strategy Session with SME, CSULB faculty, and TranSystems - July 12, 2006, CCDoTT offices, Long Beach, CA.
- CCDoTT FY06 MDO Project Planning Meeting - July 7, 2006, CCDoTT offices, Long Beach, CA.
- SM21 FY05 Global Stakeholder Workshop - July 6, 2006, Atlanta Marriott Downtown, Atlanta, GA.
- CCDoTT Port Disruption Planning teleconference with MARAD, CSULB faculty and TranSystems – June 30, 2006, CCDoTT offices, Long Beach, CA.
- CCDoTT Ad hoc workshops on FY06 Port Access and CFD Workshop projects - June 14, 2006, CSU offices, Hall of States Building, Washington, DC.
- CCDoTT East Coast Conference - June 14, 2006, CSU offices, Hall of States Building, Washington, DC.
- CCDoTT FY05 AP/HSS Quarterly Program Review - June 13, 2006, CSU offices, Hall of States, Washington, DC.
- CCDoTT Modeling Capabilities Workshop with Automation Associates, Inc. – June 5, 2006, CCDoTT offices, Long Beach, CA.
- CCDoTT FY06 AP/HSS program planning meeting with CCDoTT SMEs - May 24, 2006, CCDoTT offices, Long Beach, CA.
- CCDoTT Port Disruption Planning teleconference with CSULB faculty and TranSystems - May 24, 2006, CCDoTT offices, Long Beach, CA.

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- Preliminary FY06 AP/HSS ONR Proposal planning meeting with CCDoTT/CSULB Foundation - May 19, 2006 at CCDoTT offices.
- SM21 FY05 Quarterly Program Review - May 11, 2006. Volpe Center, Cambridge, MA.
- Congressman Dana Rohrabacher Hosted Maglev Project Briefing for POLA/LB Port Commissions – March 24, 2006, CSULB Chart Room, Long Beach, CA.
- CCDoTT/Maglev Advance Briefing for CSULB President F. King Alexander - March 22, 2006, CSULB Foundation, Long Beach, CA.
- CCDoTT/Maglev Briefing for the Southern California association of Governments and Dr. Rob Leachman of UC Berkeley - March 16, 2006, CSULB Foundation, Long Beach, CA.
- CCDoTT Quarterly Program Review - February 13, 2006, at CSULB Foundation in Long Beach, CA.
- FY06 Maglev Project Team Meeting with Transrapid - February 7, 2006, CCDoTT offices, Long Beach, CA.
- CCDoTT/CSULB FY06 Port Economic Study Meeting with Dr. Kristin Monaco - February 6, 2006, CCDoTT offices, Long Beach CA

2005:

- IMPACT 2005 Wrap-Up Meeting - November 22, 2005, CCDoTT offices, Long Beach, CA.
- CCDoTT Quarterly Program Review – November 10, 2005, RMS Queen Mary, Long Beach, CA.
- Informal meetings of CCDoTT Advisory Committee. November 9-10, 2005, RMS Queen Mary, Long Beach, CA.
- West Coast Conference (IMPACT 2005) - November 9-10, 2005, RMS Queen Mary, Long Beach, CA.
- FY05 CCDoTT/Maglev Project Team meeting with Research Partner Manalytics – November, 2005, CCDoTT offices, Long Beach, CA.
- FY06 Project Planning Meeting with SNAME and CSULB CFD Project Team - November 17, 2005, CSU offices, Washington, DC.
- FY05 AP/HSS organizational and kickoff meetings – September, 2005. CCDoTT offices, Long Beach, CA and Research Partner headquarters, Washington DC.
- FY05 SM21 Project Management Kick-off meetings - September 1-2 and 19-20, 2005. CITT, Long Beach, CA.
- CCDoTT Advisory Group Meeting with Dr. Joseph Lawrence, ONR Director of Transition - July 29, 2005. Georgetown Club, Washington, DC.
- CCDoTT/Maglev Briefing and Port Tour for ONR and General Atomics - July 25, 2005. Port of Long Beach and CSULBF, Long Beach, CA.
- CCDoTT Short Sea Shipping Workshop with DoD Force Transformation - June 20, 2005. CSULB Foundation, Long Beach, CA.
- CCDoTT Quarterly Program Review - June 10, 2005. MARAD/Federal Highway Administration, San Francisco, CA.
- Volpe Center/Maglev Meeting – June 8, 2005. CSULB, Long Beach, CA.
- Short Sea Shipping, Composites Workshop/Site Visit with DoD Force Transformation - May 12, 2005. CCDoTT and CSULB Composites Lab, Long Beach, CA.

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- *James Ackerman Center for the Commercial Deployment of Transportation Technologies* dedication ceremony – May 9, 2005. CSULB Foundation, Long Beach, CA.
- CCDoTT Program Review (East Coast Conference) - March 16, 2005. CSU Office of Federal Relations, Washington, DC.
- CCDoTT Quarterly Program Review - March 15, 2005. CSU Office of Federal Relations, Washington, DC.
- ONR/Force Transformation Meeting - February 2, 2005. CCDoTT, CSULB, Long Beach, CA.
- ASOP briefing for Navy Pacific Fleet Science and Planning Staff - January 28, 2005. Navatek, Ltd., Honolulu, HI.
- CCDoTT Advisory Board Meeting - January 10, 2005. CSU Office of Federal Relations, Washington, DC.

2004:

- HALSS Trimaran technical requirements workshop - December 15-17, 2004. Lockheed Martin Aero, Marietta, GA.
- ONR/Seabasing planning meeting - December 16, 2004. CCDoTT, CSULB, Long Beach, CA.
- Agile Supply Network Operational Concept Document integration workshop - December 1, 2004. Cal Poly SLO, San Luis Obispo, CA.
- ONR/Force Transformation meeting - December 1, 2004. CCDoTT, CSULB, Long Beach, CA.
- Freight Corridor Model (FCM) design workshop - November 22, 2004. CSULB, Long Beach, CA.
- CCDoTT Quarterly Program Review - November 8, 2004. CSULB Foundation, Long Beach, CA.
- Pacific Northwest Efficient Marine Terminal (EMT) Demonstration Plan Final Meeting/Workshop – October 15, 2004. Port of Tacoma, WA.
- Agile Supply Network Operational Concept Document planning workshop. September 30 – October 1, 2004, Intellitrans, Atlanta, GA.
- Very Stable Mobile Ocean Platform Project workshop - September 22, 2004. OMB, Escondido, CA.
- Agile Supply Network Rail Dispatch workshop, September 21-22, 2004, Leachman and Associates, UC Berkeley, Berkeley, CA.
- CCDoTT Advisory Committee Update - September 10, 2004, Washington, DC.
- EMT Demonstration Plan Wrap-up Workshops – August 30, 2004. Joint Transportation Command (JTC), Ft. Lewis, WA; Surface Deployment Distribution Command (SDDC), 833rd Transportation Battalion (833 TTB); Washington United Terminals (WUT), Port of Tacoma, WA.
- Very Stable Mobile Ocean Platform Data Coordination workshop – August 27, 2004. CSULB, Long Beach, CA.
- EMT Demonstration Plan Site Visits/Workshops – July 27-August 3, 2004. BNSF Intermodal Railroad Yards, Portland, OR, Seattle and Spokane WA; JTC, Ft. Lewis, WA; SDDC, 833 TTB; WUT, Port of Tacoma, WA.

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- CCDoTT FY'05 Planning Meetings – June 20-21, 2004. ONR, MARAD and Subcontractors, Washington, DC.
- CCDoTT Mid-Year Review/Conference – April 14, 2004. CCDoTT, USTRANSCOM, SPAWAR Systems Center, San Diego (SSC-SD) and TranSystems simultaneously.
- EMT Project Organizational Meeting/Conference – April 1, 2004. Port of Tacoma, WA.

2003:

- IMPACT 2003: Innovative Military Partnerships Advancing Commercial Transport – September 30, 2003. CSULB, Long Beach, CA.
- CCDoTT Advisory Committee Meeting/Conference – September 29, 2003. Long Beach Yacht Club, Long Beach, CA.
- CCDoTT End-Year Reviews/Conferences – September 17 and 19, 2003. CCDoTT, USTRANSCOM and SSC-SD simultaneously.
- Short Sea Shipping Workshop – May 29, 2003. MARAD, Washington, DC.
- Industrial College of the Armed Forces (ICAF) 2003 Transportation Industry Study. April 9, 2003. CSULB Foundation, Long Beach, CA.
- CCDoTT Mid-Year Review/Conference – April 8, 2003. SSC-SD, San Diego, CA.
- Command and Control Decision Community First Year Demo Kick-off Meeting/ Coordinating Conference – January 23-24, 2003. USTRANSCOM, Scott AFB, IL.
- CCDoTT Program Presentation – January 23-24, 2003. SAIC, McLean VA.

2002:

- CCDoTT/SSC-SD Post-Award Kickoff Conference – December 6, 2002. CSULB Foundation, Long Beach, CA.
- CCDoTT Advisory Committee Meeting/Conference – October 31-November 1, 2002. Watergate Hotel, Washington DC.
- CCDoTT FY '01 Efficient Marine Terminal Demonstration and PNW Regional Agile Port Assessment Workshops – September 4-5, 2002. Port of Tacoma, Tacoma, WA.
- American President Lines (APL) Demonstration Strategy Meeting/Workshop – August 14, 2002. CSULB Foundation, Long Beach, CA.
- CCDoTT FY '01 EMT Demo Planning Workshop – July 26, 2002. Port of Seattle, Seattle, WA.
- CCDoTT HS Trimaran FY '02 Planning Workshop – July 18, 2002. US Navy Op 42, Pentagon, Washington DC.
- CCDoTT Supply Chain Security Oversight Conference – July 17, 2002. Watergate Hotel, Washington, DC.
- CCDoTT/USTRANSCOM FY '02 Planning Workshop – June 3-4, 2002. CSULB, Long Beach, CA.
- CCDoTT FY '01 Program Review Workshop – May 28-30, 2002. MARAD, Washington, DC.
- CCDoTT FY '01 EMT Demon Project Kick-off Conference – May 1, 2002. Port of Tacoma, Tacoma, WA.
- CCDoTT FY '01 Alternative Power Site Visit/Workshop – April 11, 2002. San Diego, CA.

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- CCDoTT FY '02 SOW Planning Workshop – March 15, 2002. USTRANSCOM, Scott AFB, IL.
- CCDoTT FY '01 Collaborative Visualization Project Kick-off Conference – March 6 and 7, 2002. USTRANSCOM, Scott AFB, IL.
- CCDoTT FY '02 Program Review/Workshop – February 26-March 2, 2002. Watergate Hotel, Washington, DC.
- CCDoTT Pacific Market Study Meeting/Conference – February 25, 2002. MARAD, Washington, DC.
- CCDoTT FY '02 Steering Group Meeting/Conference – January 31-February 2, 2002. CSULB Foundation.
- CCDoTT FY '02 Work Group Meetings/Conferences (6) – December 5, 2001-January 22, 2002. CCDoTT, MARAD and USTRANSCOM simultaneously.

2001:

- CCDoTT Advisory Committee Meeting/Conference – November 29, 2001. Watergate Hotel, Washington DC.
- CCDoTT FY '01 AP Program Review/Workshop – November 5, 2001. Office of Congressman Norm Dicks, Seattle, WA.
- CCDoTT FY '01 Program Review/Workshop – October 2-3, 2001. MARAD, Washington, DC.
- CCDoTT FY '01 Program Review/Workshop – August 29-30, 2001. USTRANSCOM, Scott AFB, IL.
- CCDoTT FY '01 CFD Program Site Visit/Workshop – August 28-30, 2001. Pacific Marine & Supply, Honolulu, HI.
- CCDoTT FY '01 Alternative Power Site Visit/Workshop – August 8, 2001. La Jolla, CA.
- CCDoTT FY '01 Command and Control Site Visit/Workshop – August 8-9, 2001. Maya Viz, Ltd., Pittsburgh, PA.
- CCDoTT FY '01 Alternative Power Site Visit/Workshop – July 19, 2001. La Jolla, CA.
- CCDoTT FY '01 Steering Group Meeting/Conference – May 29, 2001. CSULB Foundation.
- CCDoTT FY '01 Work Group Meeting – May 10, 2001. MARAD, Washington, DC.
- CCDoTT FY '00 Program Review Meeting/Conference – May 9, 2001. MARAD, Washington, DC.
- CCDoTT FY '01 Work Group Meeting – March 20, 2001. MARAD, Washington, DC.
- CCDoTT FY '01 Work Group Meeting – March 7-8, 2001. USTRANSCOM, Scott AFB, IL.
- CCDoTT FY '01 Program Review Meeting – January 24, 2001. Watergate Hotel, Washington, DC.

2000:

- CCDoTT FY '00 CFD Program Site Visit/Workshop – December 6-8, 2000. Pacific Marine & Supply, Honolulu, HI.

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- USTRANSCOM CINC Site Visit/Workshop – November 7, 2000. CSULB Foundation, Long Beach, CA.
- CCDoTT FY '00 Steering Group Meeting/Conference – October 5, 2000. CSULB Foundation, Long Beach, CA.
- CCDoTT FY '00 Work Group Meeting – September, 2000. MARAD, Washington, DC.
- CCDoTT FY '00 EMT West Coast Port Planning Meeting – September 18-20, 2000. Port of Tacoma, WA.
- CCDoTT FY '00 Work Group Meeting – August 3, 2000. MARAD, Washington, DC.
- CCDoTT FY '00 Work Group Meeting – May 25-26, 2000. MARAD, Washington, DC.
- CCDoTT FY '97/'98 Program Review Meeting – April 27-28, 2000. MARAD, Washington, DC.
- Full Scale EMT Demonstration Requirements meetings/workshops: West Coast Port Outreach Presentations – March 27-31, 2000. Port of Seattle, Port of Tacoma, Port of Long Beach, Port of Oakland, Seattle regional workshop.

1999:

- High Speed Sealift Planning Meeting – October 27, 1999. University of Alabama, Tuscaloosa, AL.
- CCDoTT Sea Based Port Meeting/Workshop – October 3, 1999. USTRANSCOM, Scott AFB, IL.
- CCDoTT Program Review Meeting/Workshop – September 20, 1999. MARAD, Washington, DC.
- Full Scale EMT Demonstration Requirements meetings/workshops: Agile Port Road Show – August 23-27, 1999. Southern California Association of Governments / San Bernardino Associated Governments, Port of Los Angeles, Port of Long Beach, Port of Seattle, Port of Tacoma, Washington State and local government organizations.
- CCDoTT FY '00 Planning Meeting/Workshop – August 4-6, 1999. Washington, DC.
- CCDoTT Program Review Meeting/Workshop – April 15 and 16, 1999. CSULB, Long Beach, CA.
- CCDoTT Program Review Meeting/Workshop – April 2, 1999. USTRANSCOM, Scott AFB, IL.
- CCDoTT Program Review Meeting/Workshop – March 5, 1999. USTRANSCOM, Scott AFB, IL.
- CCDoTT HSS Site Visit/Workshop – March 4-6, 1999. Pacific Marine, Honolulu, HI.
- CCDoTT/CHCP Reception – January 26, 1999. San Pedro Hilton, San Pedro, CA.
- HSS Workshop – January 13-15, 1999. University of Alabama, Tuscaloosa, AL.

1998:

- CCDoTT SOW Planning Meeting – November 18, 1998. MARAD, Washington, DC.
- CCDoTT Quarterly Review Meeting – November 4-6, 1998. LMI, McLean, VA.
- CCDoTT Strategic Planning Meeting – September 15, 1998. USTRANSCOM, Scott AFB, IL.
- CCDOTT AP SOW Planning Meeting – August 24-28, 1998. Seattle, WA.
- CCDoTT SOW Planning Meeting – July 27-August 1, 1998. MARAD, Washington, DC.

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- High Speed Sealift '98 Kick-off Meeting – July 17, 1988. University of Alabama, Tuscaloosa, AL.
- CCDoTT Strategic Planning Meeting – July 6-7, 1998. SAIC, Tyson's Corner, VA.
- TrAMS Pit Construction Site Visit – June 11, 1998, XVIII Airborne Corp., Ft. Bragg, Fayetteville NC.
- Identification Technical Workshop for Freight Applications: Current Applications and Future Needs – June 8-10, 1998. Sheraton Reston Hotel, Reston VA.
- TrAMS Pit Construction Site Visit – May 21, 1998, XVIII Airborne Corp., Ft. Bragg, Fayetteville NC.
- CCDoTT SOW Planning Meeting – May 18-19, 1998, Washington, DC.
- CCDoTT HSS Planning Meeting – May 13, 1998, Washington, DC.
- USTRANSCOM CINC site visit/workshop – May 8, 1998. CSULB Foundation, Long Beach, CA.
- CCDoTT HSS Planning Meeting – May 1, 1998, Washington, DC.
- CCDoTT SOW Planning Meeting – April 30, 1998, USTRANSCOM, Scott AFB, IL.
- CCDoTT SOW Planning Meeting – April 16, 1998, CSULB, Long Beach, CA.
- CCDoTT Steering Group Meeting – March 30, 1998. USTRANSCOM, Scott AFB, IL.
- 2nd High Speed Sealift Technology Workshop – March 25, 1998. Naval Surface Warfare Center (NSWC), Carderock, MD.
- CCDoTT HSS Planning Meeting – March 10, 1998, Uof A, Tuscaloosa, AL.
- CCDoTT SOW Planning Meeting – March 2, 1998, MARAD, Washington, DC.
- CCDoTT SOW Planning Meeting – February 27, 1998, USTRANSCOM, Scott AFB, IL.
- TrAMS Pit Construction Site Visit – February 23-24, 1998, XVIII Airborne Corp., Ft. Bragg, Fayetteville, NC.
- CCDoTT SOW Planning Meeting – February 5, 1998, MARAD, Washington, DC.
- TrAMS '97 Coordinating Conference – January 26, 1998. Concurrent Technologies Corporation (CTC), Johnstown, PA.

1997:

- CCDoTT SOW Planning Meeting – December 15, 1997, USTRANSCOM, Scott AFB, IL.
- CCDoTT SOW Planning Meeting – November 18-19, 1997, CSULB, Long Beach, CA.
- CCDoTT SOW Planning Meeting – November 6, 1997, MARAD, Washington, DC.
- 1st High Speed Sealift Technology Workshop – October 21-23, 1997. NSWC, Carderock, MD.
- High Speed Ship Market/Economic Issues Meeting – October 8, 1997. Logistics Management Institute, Tyson's Corner VA.
- CCDoTT/National Center for Advanced Marine Applications (NCAMA) High Speed Ship Planning Meeting for FY97 and FY98 SOW – September 4-5, 1997. University of Alabama, Tuscaloosa AL.
- CCDoTT In Progress/TrAMS Design Review – July 15-17, 1997. CTC, Johnstown, PA and DOD, Washington DC.
- USTRANSCOM/Admiral Richard Naughton site visit/workshop – July 10, 1997. CSULB, Long Beach, CA.

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- ICAF 1997 Transportation Industry Study – May 12, 1997. CSULB Foundation, Long Beach, CA.
- TrAMS '96 Coordinating Conference – May 6-10, 1997. CTC, Johnstown, PA.
- USTRANSCOM/CINC site visit/workshop – April 22, 1997. CSULB, Long Beach, CA.
- OCD Finalization Working Session – January 22-24, 1997. San Francisco, CA.

1996:

- OCD Working Session – December 9-12, 1996. BTG, San Diego, CA.
- CCDoTT Advanced Technologies Seminars (5) – May-September, 1996. University of Southern California, Los Angeles, CA.
- OCD Working Session – July 26, 1996. CTC, Oakland, CA.
- CCDoTT In Progress Reviews – June 2-7, 1996. USTRANSCOM, Scott AFB IL and BTG, San Diego, CA.
- CCDoTT Program Review/workshop – March 29, 1996. USTRANSCOM, Scott AFB, IL.

1995:

- Just-In-Time/PAL++ Simulation Design Meeting/Workshop – December 19, 1995. BTG, San Diego, CA.
- CCDoTT Technical Interchange/Input Meetings – December 11, 1995. DOT/MARAD and DOD/Pentagon, Washington, DC.
- CCDoTT Initial Briefing/Workshop – October 31, 1995. USTRANSCOM, Scott AFB.

2. CCDoTT Presentations Made:

2006:

- CSULB/Maglev demonstration and briefing for LA Port Commissioner, Jerilyn Mendoza and Environmental Defense – August 28, 2006, General Atomics test track, La Jolla, CA
- CSULB/General Atomics ECCO Project Follow-up Meeting and Demonstration with the Port of Los Angeles - August 15, 2006, General Atomics, La Jolla, CA.
- CCDoTT/Maglev presentation for Marine Transportation System National Advisory Committee – August, 2006, Washington DC.
- Mr. Stan Wheatley, Dr. Anastasios Chassiakos, and Dr. Ken James gave presentations at the 31st Annual Transportation Research Board (TRB) Summer Ports, Waterways, Freight and International Conference – July 8–11, 2006, LaJolla, CA. **CCDoTT FY 04 Program, FY05 Program, and ECCO System Posters presented.**
- SM21 presentation to West Coast terminal operators – July 26, 2006, Pier 400, Long Beach, CA.
- San Pedro Bay Ports Emerging Technologies Strategy Discussion hosted by CA State Senator Alan Lowenthal for POLA/LB Directors and Commissioners and the Chair of the Alameda Corridor Transit Authority – June 23, 2006, California State Lands Commission, Long Beach, CA.
- Maglev/ECCO briefing for the I-91/I-605 Corridor Group of Gateway Cities - June 19, 2006 in Paramount, CA.
- CSULB/General Atomics ECCO Project Final Review Meeting with the Port of Los Angeles - June 15, 2006, POLA headquarters in San Pedro, CA.
- CCDoTT/Maglev briefings for staff of Reps. Dana Rohrabacher and Juanita Millender-McDonald at their request – June 13, 2006, Congressional offices, Washington DC.
- CDI Marine presented a paper on CCDoTT waterjet research at the 9th International Marine Design Conference 2006 (IMDC '06) - May 16-19, 2006, Ann Arbor, MI.
- CCDoTT presentation to a class on the nuclear-electric naval auxiliary at the USMMA Department of Engineering, April 27-28, 2006, Kings Point NY.
- Maglev/ECCO System briefing for the Gateway Cities Council of Governments' Interstate 710 Project, I-710 Project Committee Meeting - April 27, 2006, Gateway Cities offices, Paramount, CA.
- CCDoTT/Maglev presentation to CSULB/CITT's Global Logistics Seminar with Norman Fassler-Katz - April 26, 2006, CSULB Foundation.
- Maglev/ECCO System briefing for the Gateway Cities Council of Governments' Interstate 710 Project - April 21, 2006, Gateway Cities Offices, Paramount, CA.
- HALSS presentation to National Shipbuilding Research Program (NSRP) Product Design and Material Technologies Panel (SP-14) conference - April 20, 2006, Las Vegas, NV.
- HALSS briefing and paper presentation to West Coast SNAME, US Maritime Highways Conference - April 20-23, 2006, Las Vegas, NV. **Dr. Igor Mizine presented HALSS papers.**
- CCDoTT/Maglev briefing for Julie Masters, National Resources Defense Council leadership - April 13, 2006, CSULB Foundation.

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- PNW AP Demo/SM21 briefing for Bill Aird, Bob Bouchard and Randy Rogers of MARAD, also FHWA and FRA representatives – April 12, 2006. Alexandria, VA,
- PNW AP Demo/SM21 briefing for Mr. Bill Aird of MARAD - April 12, 2006, DOT, Washington DC.
- PNW AP Demo/SM21 meeting with USJFCOM General John J. Ryneska, U.S. Joint Experimentation Directorate (J9) Col. Ed Hatch USA, Joint Deployment Employment and Sustainment Tim Freihofer SES, and Col. Sharon Baker - April 11, 2006, Suffolk, VA.
- Agile Ports Briefing for the Integrated Work Group Meeting of the Governor’s Goods Movement Action Plan - March 30, 2006, California EPA, Sacramento, CA.
- CCDoTT/Maglev Briefing for David Libatique of Los Angeles Mayor Antonio Viarraigosa’s Strategic Planning and Policy Development office – March 23, 2006, City Hall, Los Angeles, CA.
- 3rd Annual Short Sea Shipping Conference - March 20-21, 2006, OMNI Orlando Resort, in Orlando, FL. **Short Sea Shipping Project Team were panelists.**
- PNW AP Demo/SM21 Presentation for 833rd Transportation Battalion and MARAD – March 1, 2006, Seattle, WA.
- CCDoTT/Maglev Testimony and Presentation before the California Combined Senate and Assembly Transportation Committee hearing “Governor’s Strategic Growth Plan: Expanding Technology’s Role in Meeting 21st Century Challenges” - February 28, 2006, Sacramento, CA. **Dr. Ken James gave testimony on Maglev system.**
- SM21 Functional Requirements Briefing for USA 834th Transportation Battalion – February 28, 2006, Concord, CA.
- CCDoTT/Maglev’s Recommended changes to the State Cargo Movement Action Plan document presented to the California Air Quality Control Board Public Hearing on the CA State Cargo Movement Plan - February 22, 2006, Commerce, CA.
- CCDoTT AP/HSS and SM21 Briefings for Jon Kaskin/OP-42 – February 16, 2006, DOD, Washington, DC.
- CCDoTT/Maglev presentation for Fast Freight – Clean Air Conference - February 1, 2006, Long Beach, CA. **Dr. Ken James presented a Maglev paper.**
- CCDoTT/Maglev presentation for METRANS Urban Freight Conference – January 31, 2006, Long Beach, CA.
- CCDoTT, PNW AP Demo, and SM21 briefings for USTRANSCOM DCINC - January 26, 2006, Scott AFB, IL.
- SM21 PPSP Workshop for USTRANSCOM Staff - January 25, 2006, Scott AFB, IL. CCDoTT/Maglev briefing for Congressman Dana Rohrabacher - January 24, 2006, General Atomics in San Diego, CA.
- SM21 Briefings – January 18-20, 2006, Washington, DC.
 - Future Naval Capability Sea Base and Sense and Respond Logistics Brief with Capt Martin Chamberlain ONR and Dr. Ed Crow, Penn State University.
 - Port and Homeland Security Attributes of Power Projection Support Platform Brief with Kerry Thomas, DHS.
 - Program Management Plan and Demonstrations Brief for Bill Aird and Ms. Maggie Blum MARAD
- Neural Network Optimization presentation, Endeavor Project Management Review meeting with Navatek and ONR - January 18-19, 2006, in Honolulu, HI.

2005:

- FY05 Waterjet and Structural Loads Presentations to Dan Sheridan and Pat Purtell – December 14, 2005, ONR, Washington, DC.
- AUSDATL Focused Logistics Workshop - November 27-28, 2005, Washington, DC.
- High Speed Ship/Agile Port Action Officer's Group - November 15, 2005, CSC, Washington, DC.
- CSULB Center Directors Luncheon - November 7, 2005, CSULB Foundation, Long Beach, CA.
- SNAME Annual Conference - October 20, 2005, Houston, TX.
- SM21 Experimentation briefing for 1-MEF – October 2005. Camp Pendleton, CA.
- Sense and Respond Logistics proposed Future Naval Capability briefing for Capt. Martin Chamberlain USN – September 2005. Washington DC.
- 2005 NDTA Forum - September 11, 2005, San Diego, CA.
- CCDoTT Short Sea Shipping Briefing for Deputy Commander of USTRANSCOM – August 22, 2005. Scott AFB, IL.
- ONR FY'06 Axial-Waterjet Briefing - August 8, 2005. CDI, Sverna Park, MD.
- CCDoTT Pacific Northwest Agile Port Demonstration Briefing by request for Congressional staff - July 29, 2005. Office of Congressman Norm Dicks, Washington, DC.
- CCDoTT AP/HSS Program Briefing by request for Congressional staff - July 28, 2005. Office of Congresswoman Juanita Millender-McDonald, Washington, DC.
- CCDoTT?Maglev briefing for Jim Flanagan of Maersk – July 18, 2005. Maersk HQ, POLA.
- CCDoTT/Maglev Briefing by request for Congressman Dana Rohrabacher - July 7, 2005. Huntington Beach, CA.
- CCDoTT/Maglev Briefings for local agencies - July 1-18, 2005. Local offices of the Alameda Corridor Transportation Authority (ACTA), California High-Speed Rail Authority, and Maersk.
- CCDoTT/Maglev briefings for Los Angeles County Economic Development (LAEDC) and CSULB Center for International Trade and Transportation (CITT) - June 30, 2005. CSULB, Long Beach, CA.
- Cargo Handling Cooperative Program (CHCP) meeting – June 7-8, 2005. Oakland, CA.
- CCDoTT/Maglev briefings for Port Commissioner Jim Hankla – June 7, 2005 –Long Beach Port Commission, Long Beach, CA.
- CCDoTT/Maglev briefing for General Atomics – June 2, 2005. General Atomics, San Diego, CA.
- CCDoTT/Maglev briefing for MARAD Western Region - May 26, 2005. CSULB, Long Beach, CA.
- Agile Supply Network Operational Concept Document/SM21 briefing for DOD reps (DLA, Op42) - May 16-20, 2005. Washington, DC.
- Seaborne Composite Coalition presentation - May 10, 2005. DOD Office of Force Transformation, Washington, DC.

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- CCDoTT/Maglev briefing for Transportation Consultants Gil Hicks and Duane Kenagy – April 28, 2005. Alameda Corridor Transit Authority and Port of Long Beach, Long Beach, CA.
- Distribution Management Association meeting - April 12, 2005. Ontario Convention Center, Ontario, CA.
- American Society of Engineering Companies Annual Convention – April 10-13, 2005, Grand Hyatt, Washington, DC. **TranSystems Corporation won the “Grand Award for 2005 Engineering Excellence” for the *Efficient Marine Terminal Demonstration Project*.**
- CCDoTT/Maglev briefings for government representatives - April 1-22, 2005. Local offices of Congresswoman Juanita Millender-McDonald, LA Councilwoman Janice Hahn, CA State Senator Alan Lowenthal, Long Beach Mayor Beverly O-Neil.
- International Hydrofoil Society, Panel on Advanced Marine Vehicles - March 10, 2005. Crystal City, VA.
- CCDoTT/Maglev briefing for CSULB President Dr. Robert C. Maxson and Provost Dr. Gary Richard - March 9, 2005. CSULB, Long Beach, CA.
- Agile Supply Network/SM21 Briefing for Joint Forces Command - March 17, 2005. Ft. Eustis, VA.
- Virginia Chapter of the American Council of Engineering Companies (ACEC) Award Presentation and Dinner - February 3, 2005. Richmond, VA. **TranSystems Corporation won a “Professional Studies Award” for the *Efficient Marine Terminal Demonstration Project in the Non-Design Category*.**
- Axial-Waterjet Pump Model Test Run Planning workshop - February 8, 2005. NSWC Carderock, MD.
- ASNE Joint Sea Basing Conference - January 27-28, 2005. Arlington, VA.

2004:

- CCDoTT/Maglev Briefing for Congressman Dana Rohrabacher - December 14, 2004. CSULB President’s Office, CSULB, Long Beach, CA.
- HSS/AP (AOG) Executive Steering Committee briefing - December 2, 2004. OP-42 offices, Arlington, VA.
- Regional Network Modeling workshop - December 2, 2004. Southern California Logistics Rail Authority, Victorville, CA.
- CSULB College of Engineering Advisory Board - November 19, 2004., CSULB Foundation, Long Beach, CA.
- Agile Supply Network/SM21 Military Surge Deployment Data Briefings - November 16-18, 2004. Marine Corps Warfighting Lab - Quantico, VA, US Army - Fort Eustis, MD, DOD - Washington, DC.
- Cargo Handling Cooperative Program meeting - November 4-5, 2004. BNSF Railroad Headquarters, Fort Worth, TX.
- Very Stable Ocean Platform briefing for U.S. Marine Corps Forces, Pacific (MarForPac) - November, 2004. Honolulu, HI.
- Axial-Waterjet Drawing and Installation Requirements workshop - October 26, 2004. NSWC Carderock, MD.

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- Pacific Northwest Efficient Marine Terminal (EMT) Demonstration Plan Stakeholder Briefing – October 18, 2004. Hyundai Headquarters, Port of Tacoma, WA.
- Boeing Distinguished Researcher and Scholar Seminar (B-DRASS) - October 13, 2004. Boeing, Huntington Beach, CA. **Dr. Hefazi awarded honor and gave presentation on Optimization Methods.**
- Society of Naval Architects and Marine Engineers (SNAME) Annual Meeting, World Maritime Technology Conference and Exposition - September 29-October 2, 2004. Hilton Hotel, Washington, DC. **Dr. Hafazi presented paper on CFD.**
- American Association of Port Authorities (AAPA) 93rd Annual Convention – September 26-29, 2004. Long Beach, CA. **Port of Tacoma received a “Merit Award” for the Efficient Marine Terminal (EMT) Demonstration video.**
- 3rd Annual Inland Empire Transportation and Logistics Summit - September 24, 2004. San Bernardino Radisson, San Bernardino, CA. **Larry Mallon moderated a panel.**
- High Speed Sealift and Agile Port Action Officer Group (HSS/AP AOG) meeting – September 22, 2004. CSC/Advanced Marine Center, Washington, DC.
- CCDoTT briefings for John Jamian, Deputy Maritime Administrator, September 15 and 21, 2004, MARAD, Washington, DC.
- CCDoTT briefings by request for congressional staff, September 14-16 2004. Offices of for Reps. Juanita Millender-McDonald and Dana Rohrabacher; and Senators Inouye, Boxer, and Feinstein. Washington, DC.
- Agile Supply Network Military Requirements Workshops with DOD, USMC, USA, CASCOM, MCML – September 13-14, 2005, Ft. Eustis, Washington, DC.
- High-Speed Sealift and Agile Port Action Officer Group (HSS/AP AOG) planning workshop - September 10, 2004. OP-42, DOD, Washington, DC.
- Axial-Waterjet/ HS Trimaran briefing for ONR and Op-42 - September 8, 2004, NSWC Carderock, MD.
- ONR 25th Symposium on Naval Hydrodynamics – August 8-13, 2004. St. John’s, Labrador and Newfoundland, Canada. **Hamid presented a paper on CFD.**
- The Royal Institution of Naval Architects (RINA) Design and Operation of Trimaran Ships conference – April 29-30 2004. Victoria Park Plaza, London, England. **SAIC presented paper on CCDoTT work.**
- SNAME Passenger Vehicle Design meeting – January 22, 2004. Washington Navy Yard, Washington, DC.
- CCDoTT FY’04 HSS Planning Meeting/HSS & ASOP demonstration – January 13, 2004. Navatek, Ltd. Honolulu, HI.

2003:

- International WorkBoat Show – December 3-5, 2003. Morial Convention Center, New Orleans, LA.
- Process Integration and Design Optimization (PIDO) Strategy Workshop: Breakthrough Applications in Process Integration and Design Optimization – November 5, 2003. Disney’s Paradise Pier Hotel, Anaheim, CA. **Hamid presented a paper on CFD.**
- Cargo Handling Cooperative Program (CHCP) Meeting – October 27-28, 2003. Virginia Port Authority, Norfolk, VA.

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- SNAME 2003 Annual Meeting, World Maritime Technology Conference and Exposition – October 17-20, 2003. Moscone Center, San Francisco, CA. **Stan was a panelist, CDI and Seaworthy had displays/presentations.**
- CHCP Meeting – July 16-17, 2003. DoubleTree Hotel, Portland-Lloyd Center, Portland, OR.
- Goods Movement project presentation/workshop – May 15, 2003. CALTRANS, Sacramento, CA.
- Goods Movement project inland port site visits/facility assessments – May 12-14, 2003. Bakersfield and George AFB, Victorville, CA.
- DOD Force Protection Equipment Demonstration IV – May 6-8, 2003. Marine Corps Base, Quantico, VA.
- Blended Wing Body (BWB) project site visit/facility assessment – May, 2003. Westerly Marine, Santa Ana, CA.
- Goods Movement project presentation/workshop – March 25-26, 2003. DOT and DHS/TSA, Washington, DC.
- Inland Empire Transportation and Logistics Summit – April 25, 2003. San Bernardino Radisson Hotel, San Bernardino, CA.
- CHCP Meeting – February 27-28, 2003. Terminal 400, Port of Los Angeles, Los Angeles, CA.
- Hydrogen On-Demand (HOD) project site visit/facility assessment – February 19, 2003. Anuvu Fuel Cell Products, Inc., Sacramento, CA.

2002:

- MARAD Short Sea Shipping conference – November 12-13, 2002. New York, NY.
- CHCP Meeting – July 25-26, 2002. Seattle, WA.
- CHCP Meeting – May 21-22, 2002. Oakland Marriott City Center Hotel, Oakland, CA.
- CHCP Meeting – February 19-20, 2002. Radisson Hotel, Memphis, TN.

2001:

- Marine Transportation System (MTS) Research and Technology Conference – November 14-16, 2001. National Academy of Sciences, Washington DC.
- CHCP Meeting – November 13-14, 2001. MARAD, Washington, DC.
- SNAME 2001 Annual Meeting – October 24-27, 2001. Disney's Contemporary Resort, Orlando, FL.
- 6th International Conference on Fast Sea Transportation (FAST 2001) – September 4-6, 2001. University of Southampton, Southampton, UK.
- FHWA Freight Operations Conference/Workshop: Building Freight Capacity Through Better Operations – July 26-27, 2001. Long Beach Hyatt, Long Beach, CA.
- 11th CHCP Meeting – May 17-18, 2001. Port Authority of New York and New Jersey, NY.

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2000:

- High Speed Sealift Steering Committee and Action Officer meeting – March 27-29 2000. NSWC, Carderock, MD.
- Port meetings/site visit/data collection – February 8, 9 and 17, 2000. Georgia, Jacksonville, FL and Virginia Port Authorities.
- 16th Fast Ferry international Conference and Exhibition – February 8-10, 2000. Plaais des Congres & des Expositions, Nice, France. **UofA presented a CCDoTT paper.**

1999:

- Command Center of the Future site visit/facility assessment – November 30-December 1, 1999. USTRANSCOM Command Center, USTRANSCOM, Scott AFB IL.
- 5th MTS R&D Coordination Conference – November 2-4, 1999. National Academy of Sciences, Washington DC.
- 5th International Conference on Fast Transportation (FAST '99) – August 29-September 2, 1999. Bell Harbor International Conference Center, Seattle, WA. **Multiple CCDoTT papers presented.**
- 4th Annual Worldwide Movement Control Conference – May 21-23, 1999. Global Reach Planning Center, Scott AFB, IL.
- CHCP Meeting – April 22-23, 1999. Westin Peachtree Plaza Hotel, Atlanta, GA.
- 4th CHCP Meeting – January 26-27, 1999. San Pedro Hilton, San Pedro, CA.
- Port meetings/site visit/facility assessment – January 1999. South Carolina State Ports Authority (SCSPA) and Sea Land terminal, Port of Charleston, SC.

1998:

- 1st National MARAD MTS Conference: Waterways, Ports and their Intermodal Connections – November 17-19, 1998. Arlie Center, Warrenton, VA. **CCDoTT/VZM made conference brochure and supporting presentation materials.**
- 1st International Conference on New Information Technologies for Decision Making in Engineering – October 11-13, 1998. Ecole de Technologie Superieure, University of Quebec, Montreal, Canada. **CSULB's Ortwin Ohtmer presented CCDoTT's paper "Object Identification via 2D and 3D Scanning".**
- Advanced Transportation Industry Consortium (ATIC) Strategic Initiative Work Group – August 5, 1998. Southern California Association of Governments (SCAG), Los Angeles, CA. **Richard Williams was the Keynote Speaker and gave CCDoTT presentation.**
- CCDoTT Presentation to CSU Chancellor – May 28, 1998. CSU Chancellor's Office, Long Beach, CA. **Richard Williams and Rep. Steven Horn made CCDoTT presentation.**
- 2nd Annual Strategic Defense Port Workshop, MARAD National Port Readiness Network Steering Group – May 19-20, 1998. MARAD, Washington, DC. **Isaac Maya was a panelist.**
- 1st Annual CITT Conference: Building Partnerships in International Trade and Transportation – May 8, 1998. Westin Long Beach Hotel, Long Beach, CA. **Ken Wykle gave keynote address.**

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- 1st National CHCP Meeting – February 17-18, 1998. MARAD, Washington, DC.
- TRB 77th Annual Meeting – January 11-15, 1998. Omni Shoreham Hotel, Washington, D.C. **Isaac Maya presented CCDoTT HSS/AP OCD.**

1997:

- DOD Automatic Identification Technology Task Force – December 17-18, 1997.
- International Workboat Show and Conference – November 5-7 1997. Ernest Morial Convention Center, New Orleans, LA.
- American International Ship Expo – Ports of the 21st Century conference – September 10, 1997. New York Coliseum, New York, NY. **Ken Wykle gave CCDoTT presentation.**
- 4th International Conference on Fast Sea Transportation (FAST '97) – July 21-23, 1997. Sydney, Australia.
- 21st Century Power Projection Symposium – May 28-29, 1997. U.S. Army Transportation Center, Ft. Eustis, VA.
- Advanced Transportation Industry Consortium Leadership Council Kick-Off Meeting – March 14, 1997. Metropolitan Transit Authority (MTA), Los Angeles, CA.
- National Center for Advanced Marine Applications (NCAMA) Overview Conference – February 25, 1997. NCAMA, University of South Alabama, Mobile, AL.
- Port of Tacoma Technology Meeting – February 20, 1997. Port of Tacoma, WA.

1996:

- DARPA Advanced Logistics Program (ALP) Conference: Transformation Automated Measuring Workshop – December 11-13, 1996. Washington, DC. **Isaac Maya, Art Hughes, Richard Williams, Keith Seaman gave CCDoTT presentations.**
- Center for Advanced Transportation Technologies (CATT) Corporate Advisory Meeting – September 24, 1996. University of Southern California, Los Angeles, CA.
- Port of Tacoma Transportation Summit – August 24, 1996. Port of Tacoma, WA.
- Profilometry research meetings – August 9-11, 1996. Naval Post Graduate School, Monterey, CA.
- Ship repair/construction facility site visit/assessment – June 7, 1996. National Steel and Shipbuilding Company (NASSCO), San Diego, CA.
- ICODES facility assessment and demonstration – May 22, 1996. Cal Poly, SLO. San Luis Obispo, CA.
- Port meetings/site visits/facility assessments – April 1-5, 1996. Ports of Beaumont, Houston, and Galveston TX.
- Port meetings/site visits/facility assessments – March 20-23, 1996. Ports of New York/New Jersey.
- Operation Cobra Gold '96 loading exercise, March 12-15, 1996. Port of Tacoma, WA.
- Port meetings/site visits/facility assessments – March 12-14, 1996. Ports of Tacoma and Seattle, WA.
- Marine Exchange/Vessel Traffic Information Service site visit/facility assessment – February 19, 1996. San Pedro, CA.
- EDRE Military loading/mobilization exercises – January 15-16, 1996. Ft. Bliss, El Paso, TX.

3. CCDoTT Attended:

2006:

- POLB/LA Advanced Cargo Transportation Technology Evaluation and Comparison (ACTTEC) Pre-Proposal Conference - August 30, 2006, POLB Headquarters, Long Beach, CA.
- CCDoTT FY06 Seabase Supply Optimization/MPF(F) program meeting with MCCDC and Jon Kaskin of Op N42 – August 25, 2006, DOD, Washington, DC.
- CCDoTT teleconference with University of Alaska on Drag Reduction using Nanofluids – August 22, 2006, CCDoTT offices, Long Beach, CA.
- Preliminary CCDoTT teleconference with University of Alaska on Drag Reduction using Nanofluids – August 16, 2006, CCDoTT offices, Long Beach, CA.
- CCDoTT program meeting with Advisory Committee member San Siegel - August 16, 2006, Laguna Beach, CA.
- CCDoTT FY06 Seabase Supply Optimization/SM21 Coordination Meeting - August 10, 2006, Washington, DC.
- CCDoTT FY06 AP/HSS Program Planning with ONR – August 3, 2006, ONR, Washington DC.
- PNW AP Demo meeting with Andy Demott, Military Legislative Assistant to Rep. Norm Dicks - July 27, 2006, Congressional offices, Washington, DC.
- CCDoTT Alternate Power and HALSS project meetings with Colby Miller, Military Legislative Assistant for Rep. Roscoe Bartlett – July 27, 2006, Congressional offices, Washington, DC.
- CCDoTT Alternate Power meeting with Mr. Ronald O’Rourke, Congressional Research Service – July 27, 2006, Library of Congress, Washington, DC.
- JHSS and JHSV working group meetings – July, 2006, Washington, DC.
- PNW AP Demo meeting with Andy Demott, Military Legislative Assistant to Rep. Norm Dicks - July 11, 2006, Congressional offices, Washington, DC.
- POLB RFP on Evaluation of Emerging Technologies, CCDoTT coordination meeting with Dick Maddenberg of Parsons Brinckerhoff – July 7, 2006, CCDoTT offices, Long Beach, CA.
- CSULB FY08 and Outyear Federal Funding Meeting with CSULB, CSULBF, CCDoTT and Washington DC consultants - July 7, 2006, CSULB Foundation, Long Beach, CA.
- POLA/LB joint Press Conference for the San Pedro Bay Ports Clean Air Action Plan - June 28, 2006 in San Pedro, CA.
- Exporting Port Technologies to China conference hosted by the Long Beach International Trade Office – June 28, 2006, Renaissance Hotel, Long Beach, CA.
- CCDoTT/CSULB Coordination Meeting on the FY06 AP/HSS ONR proposal - June 23, 2006, CSULB Foundation, Long Beach, CA.
- SNAME T&R Steering Committee - June 21, 2006, Crystal City, VA.
- ONR Maglev Research Meeting hosted by Sandia Labs with of ONR, Sandia Labs, General Atomics and CSULB maglev research teams - June 16, 2006, General Atomics, La Jolla, CA.

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- PNW AP Demo meeting with Col. Hodge, SDDC Deputy Commanding General; Capt. Twig of S3; and Susan Allen of S5 - May 31, 2006, SDDC, Ft. Eustis, VA.
- HSS/AP Action Officers Group meeting - May 15, 2006, CSC, Alexandria, VA.
- CSULB Center Director's Reception sponsored by the Office of University Research - May 10, 2006, CSULB Foundation, Long Beach, CA.
- Maglev/ECCO meeting held with Tim Grabiell of the National Resources Defense Council - May 3, 2006, San Pedro, CA.
- Propellor Club annual reception - May 2, 2006, Washington, DC
- Maglev technology meeting with Dr. Littlefield and Dr. Rispin of ONR, and Sandia Labs General Atomics, and CCDoTT – April 27, 2006, General Atomics, San Diego, CA.
- CCDoTT Marine Exhaust Control Project Team Meeting with CCDoTT SMEs – April 24, 2006, CCDoTT offices, Long Beach, CA.
- CCDoTT Marine Exhaust Control Project Team Meeting with Exxon/SeaRiver executives – April 23, 2006, LA Harbor Hotel, San Pedro, CA. visit and route walk with CSULB, General Atomics, CCDoTT and POLA staff – April 20, 2006, POLA, Los Angeles, CA.
- CCDoTT/Maglev teleconference with Stirling Group, staff of the Southern California Logistics Airport – April 19, 2006, CCDoTT offices, Long Beach, CA.
- PNW AP Demo follow up planning session with 833rd Transportation Battalion Headquarters, I Corp Headquarters, and the Installation Transportation Division – April 19, 2006, Fort Lewis, WA.
- CCDoTT/Maglev teleconference with Stirling Group, staff of the Southern California Logistics Airport – April 11, 2006, CCDoTT offices, Long Beach, CA.
- General Atomics/POLA Maglev Project Kickoff Meeting – April 5, 2006, POLA Headquarters, San Pedro, CA.
- PNW AP Demo Planning Meetings with 833rd Transportation Battalion Headquarters; I Corp Headquarters; and Installation Transportation Division - April 3 – 5, 2006, Fort Lewis, WA
- PNW AP Demo ICODES Meeting - March 21, 2006.
- Maglev/ECCO Coordination Meeting with General Atomics – March 21, 2006, General Atomics, San Diego, CA.
- CCDoTT FY06 Seabasing Project Coordination Meeting with OP 42 – March 21, 2006, DOD, Washington, DC.
- 8th Annual CITT State of Trade and Transportation Industry Town Hall Meeting - March 15, 2006, CSULB Carpenter Center for the Performing Arts, Long Beach, CA.
- PNW AP Demo Ship Stow and Load Planning Coordination Meeting - March 10, 2006, SDDC/TEA, Newport News, VA.
- Composites Program Meeting with CDR Greg Glaros - March 7, 2006, Knight and Carver, San Diego, CA.
- PNWW AP Demo Planning Meetings with SDDC, 833rd Transportation Battalion – March 2-3, 2006, Seattle, WA.
- CSULB President Alexander visits to Congressional Reps. for CCDoTT/CSULB Programs – March 2, 2006, Washington, DC.
- PNW AP Demo/ICODES Coordination Meeting – February 28, 2006, Cal Poly San Louis Obispo, SLO CA.

CCDoTT 2005-2006 Annual Report Attachment C – Conferences/Workshops
Center for the Commercial Deployment of Transportation Technologies

- CCDoTT Port Access Planning Meeting with SDDC, NAVSEA, and NSWC Carderock - February 17, 2006, NSWC Carderock, MD.
- HSS/AP Executive Steering Committee - February 16, 2006, Op-42, Washington, DC.
- Informal Meetings of CCDoTT Advisory Committee - February 15-16, 2006, Washington, DC.
- CCDoTT Port Disruption Model and Port Access Program Planning Meeting with MARAD - February 15, 2006, Maritime Administration, Washington, DC.
- PNW AP Demo Coordination Meeting - February 9, 2006, TEA Headquarters, Newport News, Virginia.
- California Air Quality Control Board Public Hearing on the CA State Cargo Movement Plan - February 6, 2006, Banning's Landing, Wilmington, CA.
- Long Beach Press Telegram interview with Mr. Steven Hinds – February 2006. **Mr. Steven Hinds interviewed by Karen Robes for “Maglev Train Gathers Steam” which ran in the February 6th issue.**
- CSULB Composites Program Meeting with CDR Greg Glaros – January 27, 2006, San Diego, CA.
- FY05 Alternative Power Project Team Meeting and Teleconference – January 24, 2006, General Atomics, San Diego, CA.
- Texas Transportation Institute's Automated Freight Transport Concept briefing before the LA Harbor Commission - January 18, 2006, Banning's Landing, Wilmington, CA.
- CCDoTT Port Access Simulation Planning Meeting with Jack Offutt, Mike Williams of USA TEA and Steve Wynn of NAVSEA - January 13, 2006, MITAGS, Linthicum, MD.
- Stiletto Program Baseline Hull testing, AFCEA West 2006 Conference - January 10-12, 2006, San Diego, CA.
- FY05 Waterjet Project Team Meeting with NSWC Carderock - January, 2006, NSWC Carderock, MD.

2005:

- Journal of Commerce Interview with Dr. Ken James, December 2005. **Dr. James interviewed by Bill Mongelluzzo of the JOC which ran in the January 2006 issue.**
- CCDoTT Advisory Committee/USTRANSCOM Meeting – November 21, 2005, Scott AFB, IL.
- CSULB Composites Program Meeting - November 18, 2005. NSWC Carderock, MD.
- FY05 Alternative Power Project Team Meeting with Rolls Royce Naval Marine, Inc. - November 18, 2005, Alexandria, VA.
- California Air Resources Board Goods Movement and Ports Phase II Work Group - November 15-16, 2005, Los Angeles, CA.
- POLA Site Visit with CCDoTT Maglev Project Team, General Atomics and POLA staff - November 8, 2005.
- PNW AP Demo/SM21 teleconference with Susan Allen, G5 Plans, SDDC – November 3, 2005.
- Port Congestion Workshop and Conference - October 27-23, 2005 in San Francisco, CA.
- ONR FY'05 Sense and Respond Program Planning workshop – August 29, 2005.
- CCDoTT FY'05/FY'06 HSS Project Planning meeting - July 26, 2005. Viking Systems, Annapolis, MD.

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- HSS/AP AOG meeting - June 28, 2005. Computer Sciences Center, Washington, DC. **Stan Wheatley designated as a “Core Member” of the HSS/AP AOG.**
- Pulse of the Ports: 2005 Southern California Peak Season Forecast - June 14, 2005, Port of Long Beach, Long Beach, CA.
- International Conference on Fast Sea Transportation (FAST 2005) - May 27-29, 2005. St. Petersburg, Russia,.
- Axial-Waterjet Pump Model Test photo review session - May 19, 2005. NSWC Carderock, MD.
- PNW AP Demonstration / Military Demonstration planning workshop for MSC, NSWC Carderock and NAVSEA – May 11, 2005. Military Sealift Command (MSC), Washington Navy Yard, Washington, DC.
- Magnetic Technology and Systems Meeting - April 20, 2005. Sandia National Laboratories, Albuquerque, NM.
- RFID In 2005: Technology and Industry Perspectives - April 6, 2005. U.S. Department of Commerce, Washington, DC.
- Americal Association of Port Authorities (AAPA) Spring Conference - April 4, 2005. Washington, DC.
- Power Projection Facility Site Visits - April, 2005. Ft. Lewis and Port of Tacoma, WA.
- ONR Agile Port SME coordination meeting - March 17, 2005. The Volpe Institute, Boston, MA.
- Axial-Waterjet Pump Model Test data review session - March 18, 2005. NSWC Carderock, MD.
- Agile Supply Network Railhead Safety/Security workshops - March 14, 2005. Federal Railroad Administration, Washington, DC.
- CITT 7th Annual Town Hall Meeting on *Lessons Learned from the 2004 Peak Season Crisis* - March 10, 2005. CSULB, Long Beach, CA.
- Cargo Handling Cooperative Program meeting - February 7-8, 2005. Philadelphia, PA.

2004:

- CSULB Legislative Review Session - November 1, 2004. CSULBF, Long Beach, CA.
- MARAD 3rd Annual MTS Short Sea Shipping Conference – October 13-15, 2004. Hilton Hotel, New York, NY.
- Cargo Handling Briefings – October 7, 2004. NAVSEA, Carderock, MD.
- 6th Annual ONR Workshop on Collaborative Decision Support Systems - September 8-9, 2004. US Marine Corps Base, Quantico, VA.
- Axial-Waterjet Pump Model Testing and Tunnel Selection workshop - August 25, 2004. NSWC Carderock, MD.
- Department of Homeland Security (DHS)/Transportation Security Administration (TSA) Homeland Security Forum – July 14, 2004. UC Irvine, Irvine, CA.
- ONR Center for Innovation in Ship Design (CISD): Ship Smart System Design (S3D): A simulation based design environment for ship systems – July 8, 2004. NSWC Carderock, MD.
- American Society of Naval Engineers Day 2004 (ASNE). Naval Engineering: Transforming Maritime Defense and Sea Power. High Speed / High Performance Ships and Craft Workshop – June 28-29, 2004. Hyatt Regency Crystal City, Arlington, VA.

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- Naval War College (NWC) 55th Current Strategy Forum – June 15-16, 2004. Newport, RI.
- CISD: Naval Ship Design Concept Exploration and Development Using Multi-Objective and Multi-Disciplinary Optimization – May 13, 2004. NSWC Carderock, MD.
- 6th Annual CITT State of the Trade and Transportation Industry Town Hall Meeting: Quality of Life and Port Operations: Challenges, Successes and the Future – March 24, 2004. CSULB, Long Beach, CA.
- CHCP Meeting – March 15-16, 2004. Savannah Trade Center, Savannah, GA.
- CISD: Advanced Naval Vehicle Research and Education at the University of Michigan – March 11, 2004. NSWC Carderock, MD.

2003:

- MTS 2nd Annual Short Sea Shipping Conference – November 4-6, 2003. Ritz-Carlton Hotel, Sarasota, FL.
- Transportation Research Board (TRB) Military Transportation Committee – July 14-15, 2003. DoubleTree Hotel, Portland-Lloyd Center, Portland, OR.
- California Goods Movement and Port Security Conference – July 1-2, 2003. Hyatt Regency, Long Beach, CA.
- U.S./Mexico border inspection technology site visit/facility assessment – April 21-22, 2003. U.S. Customs facility, El Paso, TX.
- 5th Annual CITT State of the Trade and Transportation Industry Town Hall Meeting: What's in it for me? Collaborative Strategies for New Transportation Infrastructure in California – March 26, 2003. CSULB, Long Beach, CA.
- ITS America – International Freight Technology Working Group (IFTWG) Winter Meeting – March 18-20, 2003. Marriott Hotels, Memphis, TN.
- ONR CISD – 1st National Naval Engineering Education Conference (NEEC) – March 11-13, 2003. NSWC, Carderock, MD.
- Military Requirements for HSS Meeting/Workshop – March 6, 2003. Deployment Process Modernization Office (DPMO), Ft. Eustis, VA.
- Navy Seal Conference – February, 2003. Santa Barbara, CA.
- ONR CISD Western Regional Meeting – January 30, 2003. U.S. Naval Postgraduate School, Monterey, CA.
- TRB Annual Meeting – January 12-16, 2003. Omni Shoreham Hotel, Washington, DC.
- International Organization for Standardization (ISO) TC204 Work Group – January 22-24, 2003. Orlando, FL.

2002:

- American Society of Naval Engineers (ASNE) High Speed / High Performance Ships and Craft Workshop – December 10-11, 2002. Holiday Inn, Arlington, Arlington, VA.
- SNAME Ad Hoc Panel #10 on Alternative Powering Systems for High Speed Ships – April 17, 2002. JJMA, Arlington, VA. **Stan Wheatley Chaired Panel.**
- ASNE Tenth International Conference on Nuclear Engineering (ICONE 10): Nuclear Energy-Engineering Today the Power for Tomorrow – April 14-18, 2002. Hyatt Regency Crystal City, Arlington, VA.

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- 4th Annual CITT State of the Trade and Transportation Industry Town Hall Meeting: Time of Transitions: New Priorities and Challenges for Trade and Transportation in Southern California – March 13, 2002. CSULB, Long Beach, CA.

2001:

- Marine Log Shipbuilding Decisions 2001 – December 4-5, 2001. Washington Marriott, Washington, DC. **Stan Wheatley was on a panel.**
- SNAME Ad Hoc Panel #10 on Alternative Powering Systems for High Speed Ships – October 24, 2001. Disney’s Contemporary Resort, Orlando, FL. **Stan Wheatley Chaired Panel.**
- TRB 80th Annual Meeting – January 7-11, 2001. Washington, D.C.

2000:

- NDTA Military Sealift Committee – November, 2000. Washington, DC.
- First Ad Hoc Panel on Alternative Powering Systems for High Speed Ships – September 26, 2000. JJMA, Arlington, VA. **Stan Wheatley Chaired Panel.**
- TRB Intermodal Freight Transport Committee – February 23-26, 2000. Long Beach, CA.
- Ad Hoc Panel on Alternative Power founding workshop – January 2000. SNAME, Jersey City, NJ.

1999:

- CHCP Meeting – September 14-15, 1999. Seattle, WA.
- Army Science Board meeting – June 1999. Philadelphia, PA.
- CHCP Meeting – April 22-23, 1999. Atlanta, GA.
- 15th Annual Fast Ferry International Conference and Exposition – February 16-18 1999. Hynes Convention Center, Boston, MA.
- CHCP Meeting – January 27-28, 1999. San Pedro Hilton, San Pedro, CA.

1998:

- CHCP Meeting – June 11-12, 1998. MARAD, Washington, DC.
- Defense Information Services Agency (DISA) on Transportation Information Infrastructure (TII) Extreme Information Infrastructure (XII) Part 1 Final Technical Meeting – April 6, 1998. Hanscom AFB, Bedford, MA.
- American Society of Civil Engineers (ASCE) Ports ’98 Conference – March 9-11, 1998. Long Beach Convention Center, Long Beach, CA.

1997:

- 76th TRB Annual Meeting – January 12-16, 1997. Omni Shoreham Hotel, Washington, D.C.

1996:

- TRB Conference – July 7, 1996. Long Beach, CA.
- DARPA Advanced Logistics Program (ALP) Conference – May 28-30, 1996. Washington, DC.
- Intermodex '96, Intermodal Association of North America – February 21-22, 1996. Long Beach, CA.
- Joint Planning and Orientation Course (JPOC) – February 12-13, 1996. CSULB, Long Beach, CA.

CCDoTT Completed Projects (1995 – 2006)

September 1, 2005 – August 31, 2006 Reporting Period

Research findings available online at www.ccdott.org

2004 Program Elements

Agile Port and Terminal Systems:

- Feasibility of a High-Speed intermodal Corridor for Port of Los Angeles/Long Beach. August 2005.
- Concept Design Development of a Very Stable Mobile Ocean Platform. August 2005.

High Speed Ship Systems:

- Automated Multidisciplinary Design Optimization Method for Multi-Hull Vessels. August 2005.
- Model Test and Evaluation of an Advanced Axial Flow Waterjet Pump Designed for the Coastal Commercial Ship Sealift Application. August 2005.
- High Speed Trimaran (HST) Technology Development. August 2005.
- Advanced Technology Military Sealift / Commercial Express Pentamaran Ship Design. May, 2006.

Rapid Deployment Support Systems:

- Military and Commercial Agile Supply Network Optimization and Security. August 2005.

2003 Program Elements

Agile Ports and Terminal Systems:

- Pacific Northwest Agile Port System Demonstration Plan. November 2004.

Program Management and Technical Oversight:

- Program Management and Technical Oversight. November 2004.

2002 Program Elements

Agile Ports and Terminal Systems:

- Hazardous Material Detection and Technology Assessment and Demonstration. October 2003.
- Port of Entry and Exit Inspection Process and Technology Infrastructure, Phase III. November 2004.
- CCDoTT Stakeholder Education and Technology Transfer. December 2003.
- Increasing the Efficiency of Empty Container Interchange. October 2003.
- Container Seal Technologies and Processes, Phase I. October 2003.

High-Speed Sealift Technologies:

- Computational Fluid Dynamic (CFD) Design Tool Development and Validation. December 2003.
- Blended Wing Body Design and Construction. July 2004.
- Liberty Class Initial Ship Design. December 2003.
- Development of an Advanced Waterjet Propulsor Concept for High-Speed Sealift Applications, Phase II. November 2003.
- On Demand Hydrogen Generating System: Phase II – System Demonstration. November 2003.
- Operational, Economic and Financial Evaluation of a Logistics Solution Based on the High Speed Ship / Agile Port Concept. October 2003.

Rapid Deployment Technologies:

- Optimization of Military and Commercial Goods Movement Through Southern California Using Information Technology, Phase II. October 2003.

Decision Support Tools:

- Transportation Internet Portal Development Phase II – Feasibility Demonstration. October 2003.
- Command and Control Decision Community, Part 1. November 2003.
- Command and Control Decision Community, Part 2. November 2003.

Program Management and Technical Oversight:

- Program Management and Technical Oversight. December 2003.

2001 Program Elements

Agile Ports and Terminal Systems:

- TrAMS: Automating Hazardous Materials Documentation for Military Shipments. March 2002.
- Efficient Marine Terminal (EMT) Demonstration – Management, Implementation and Analysis with Port of Tacoma. April 2004.
- Port of Entry Inspection Technology Infrastructure Project, Phase II. March 2003.
- In-Situ Engine Emissions Testing and Comparison for a High Speed Ferry and Competing Land Transit Vehicles – Phase I. June 2002.

High-Speed Sealift Technologies:

- Computational Fluid Dynamic (CFD) Design Tool Development and Validation, Part 1. January 2003.
- Computational Fluid Dynamic (CFD) Design Tool Development and Validation, Part 2 – At Sea, Validating Scale Model Tests. January 2003.
- Computational Fluid Dynamic (CFD) Design Tool Development and Validation, Part 3 – Naval Architecture and Engineering of a Fast Passenger Ferry. June 2002.
- Economic Analysis of Alternative Powering Concepts for High-Speed Ships, Phase II. January 2004.
- Very High-Speed Trimaran (VHST) Technology Elements Development. March 2003.
- Comprehensive Assessment of High-Speed Waterjet Propulsors for Commercial and Sealift Applications. August 2002.
- Development of a Route or Mission Dependent Approach for the Calculation of Rational Structural Dynamic Loads for High Speed Multi-Hulls, Phase I. October 2002.
- On Demand Hydrogen Generating System, Phase I - Concept Development. September 2002.

Rapid Deployment Technologies:

- Cargo, Equipment Tracking and Identification Technology Demonstration: Container Seal Technologies and Processes. August 2002.
- Market Assessment for High-Speed Ship/Agile Port Concept. June 2002.
- High-Speed Ferries and Coastwise Vessels Part II: Analyses of Coastal Freight Market and Impact on Coastal Highways. June 2003.
- Optimization of Military and Commercial Goods Movement, Phase I. September 2003.

Command and Control Technologies:

- Agile Port Demonstration Node of Collaborative Visualization Software. August 2003.
- CCDoTT/USTRANSCOM Command and Control Program Broad Vision, Software Design and Functional Prototype. January 2003.

2000 Program Elements

Agile Ports and Terminal Systems:

- Transportation Automated Measurement System (TrAMS). May 2001.
- Agile Port Conceptual Design and Development – Regional Assessment. December 2002.
- Efficient Marine Terminal (EMT) Demonstration Plan with Port of Tacoma. December 2002.
- Computer Simulation and Visualization of an Integrated Automated Container Terminal (IACT) with Optimal Planning and Scheduling – Planning Stage. August 2001.
- Dynamic Simulation of Ports and Intermodal Systems Rapid Responses to Emergency Strategic Disruptions of Commercial Operation: Phases 4 and 5. February 2002.
- Port of Entry Inspection Technology, Phase I. May 2002.

High-Speed Sealift Technologies:

- Computational Fluid Dynamic (CFD) Design Tool Development and Validation. February 2002.
- Economic Analysis of Alternative Powering Concepts for High-Speed Ships. November 2001.
- Alternative Powering of Mid-Size and Smaller High-Speed Vessels. December 2001.
- Pentamaran Seakeeping and Maneuverability at High Froude Number. October 2001.
- Very High Speed Trimaran (VHST) Technology Elements Development. June 2001.
- Examination of Advanced Hullform and Propulsion System Options for Fast Military Sealift Innovation Cell. April 2001.
- Database of Planned and Current High-Speed Ships. July 2001.

Rapid Deployment Technologies:

- Cargo Equipment Tracking and Identification Demonstrations: Chassis Tag Location. December 2001.
- Pacific Rim High-Speed Ship Commercial and Military Market Assessment. May 2001.
- Pacific Rim High Speed Ocean Freight Marketing Study, Phase I. September 2001.
- High Speed Ferries and Coastwise Vessels: Evaluation of Parameters and Markets for Application. January 2002.

Command and Control Technologies:

- Transportation Internet Portal (TIP) Development. January 2002.

Program Management, Technical Oversight, Website and Publications:

- Program Management, Technical Oversight, Website and Publications. May 2002.
- CCDoTT Strategic Plan Update. April 2002.

1998 Program Elements

Agile Ports and Terminal Systems:

- Advanced Material Handling-Automatic Guidance of Vehicles in Agile Ports. January 2001.
- Real Time Testing and Verification of Loading and Unloading Algorithms Using Grid Rail (GRAIL). April 2001.
- Development of a Validated Design of an Agile Port Employing the Integrated Automated Container Terminal (IACT) Concept. September 2000.
- Demonstration and Commercialization of Direct Access Rail to Ship (DARTS) Intermodal Transfer, Chassis Positioning and Robotics. February 2001.
- Identification Technical Workshop for Freight Applications. May 2000.
- National Conference on Marine Transportation (MTS). January 2000.
- Dynamic Simulations of Ports and Intermodal Systems Rapid Responses to Emergency Disruption. October 2000.
- Efficient Marine Terminal (EMT) Full Scale Demonstration Requirements. December 2001.
- Technical Evaluation and Cost Analysis of Port Operations in Remote Areas. January 2001.

High-Speed Sealift Technologies:

- High Speed Ship Technology Briefing at University of Alabama. September 2000.
- Fast Ship Conference (Fast '99). January 2001.
- High Speed Sealift (HSS) Ship Configuration and Design Requirements. July 2000.
- High Speed Sealift (HSS) Market Opportunity Study. September 2000.
- A Study of the Economic Viability of High Speed Ocean Shipping. September 2000.

Advanced Vessel Technologies:

- High Speed Sealift Design Evaluation and Analysis. Analyze and Evaluate High Speed Sealift Current Designs. September 2000.
- High Speed Sealift Design Evaluation and Analysis. Analyze and Evaluate Current and Recent Research on High Speed Sealift Design Issues. September 2000.
- Develop Technical Plan for Development and Implementation of Advanced HSS Technology Systems. September 2000.
- Develop Technical Plan for Implementation of Advanced HSS Shipbuilding Technology. September 2000.
- High Speed Sealift Construction Evaluation and Analysis. Assess Global and Domestic Shipbuilding Requirements for High Speed Ship Systems. September 2000.
- High Speed Sealift Construction Evaluation and Analysis. Evaluate Barriers to High Speed Ship Fabrication. September 2000.
- High Speed Sealift Platform Evaluation and Analysis. February 1999.
- Very High-Speed Sealift Trimaran (VHSST) Concept Development. July 2000.

Rapid Deployment Technologies:

- Combat Projection and Force Sustainment by Sea-Based Port. September 2000.
- European Cargo and Equipment Tracking Demonstration. September 1999.
- Operational Concept Document for Command Center of the Future (CCF). January 2001.
- High Speed Ferries and Coastwise Vessels: Evaluation of Parameters and Markets for Application. Analyze and Evaluate Feeder Markets & Coastal Markets. October 2000.

Program Management, Technical Oversight, Website and Publications:

- Program Management, Technical Oversight, Website and Publications. January 2001.

1997 Program Elements

Agile Ports:

- Transportation Automated Measurement System (TrAMS). August 1998.
- Global Agile Port Review. March 2000.
- Global Definition of Port Agility. February 2001.
- Select and Evaluate State of the Art Cargo Handling Technologies. October 2000.
- Comparison of Attributes and Characteristics of Strategic Ports to Agile Port Models. February 1999.
- Economic Models of Agile Port and Intermodal Transfer Configuration. October 2000.
- National Conference on Marine Transportation (MTS). January 1999.
- Port Disruption Model - Dynamic Simulation of Ports and Intermodal Systems. August 2000.
- Marine Rail-Interface (Inland Port Concept Demonstration). November 2000.
- Technical Evaluation and Cost Analysis of Port Operations in Remote Areas. July 1999.
- Improved Methods of Airlift/Sealift Cargo Handling - Load-By-Wire. October 2000.

High Speed Sealift:

- Program Planning, Scheduling and Review. December 1998.
- High Speed Sealift Technology Briefing. January 2000.
- International Workboat Show and Conference. September 2000.
- High Speed Sealift Technology Workshop. October 1997.
- High Speed Ship Market/Economic Issues Meeting. November 1997.
- High Speed Sealift Technology Workshop Brief-out. September 1998.
- Voluntary Intermodal Sealift Agreement (VISA) Implications for High Speed Ships and Agile Ports. August 1998
- Potential DOD Use of Commercial High-Speed Sealift. March 1999.
- Current and Planned Capabilities of Commercial High-Speed Ships. March, 1999.
- An Assessment of Current and Planned Capabilities of Commercial High-Speed Ships. May 1999.

CCDoTT 2005-2006 Annual Report Attachment D – Completed Projects
Center for the Commercial Deployment of Transportation Technologies

- Overview-Potential DOD Use of Commercial High-Speed Sealift (2000-2010). June 1999.
- High-Speed Ferries and Coastwise Vessels: Evaluation of Parameters and Markets for Application. February 2001.

Program Management and Technical Oversight:

- Program Management, Technical Oversight, Website and Publications. September 2000.
- CCDoTT Strategic Plan and Technical Roadmap. March 1999.

1995-1996 Program Elements

Fast Ship – Agile Port Operational Concept Document. November 1997.

Advanced Technologies for Transportation Technical Report. November 1997.

Command and Control Technical Report/Simulation. November 1997.

Cargo Identification Technical Report/Demonstration. November 1997.

Equipment Evaluation/Design. November 1997.

High Speed Sealift/Agile Port Project Plan. November 1997.

Full Scale Model Cargo Measuring System. April 1998.