



## **CCDoTT Program Review**

**Hall of States Building, Washington, D.C.**

## **Agenda and Presenter Information**

**Center for the Commercial Deployment of Transportation Technologies  
California State University, Long Beach Foundation  
6300 State University Drive, Suite 220 • Long Beach, CA 90815 • 562.985.7394**

**June 14, 2006**



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

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**CCDoTT PROGRAM REVIEW**

**Wednesday, June 14, 2006  
Hall of States Building, Room 233-235  
444 N. Capital Street  
Washington, DC**

**AGENDA**

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|------------|---|---|
| 8:30 a.m.  | <i>Coffee service</i>                           |   |
| 9:00 a.m.  | Welcome and Introductions                       | Mr. Stan Wheatley/CCDoTT<br>Mr. Steven Hinds/CCDoTT |
| 9:30 a.m.  | Maglev program review                           | Dr. Ken James/CSULB COE                             |
| 10:00 a.m. | Pacific Coast Short Sea Shipping review         | Mr. Doug Coates/Manalytics                          |
| 10:30 a.m. | CFD/MDO program review                          | Dr. Hamid Hefazi/CSULB COE                          |
| 11:00 a.m. | <i>Break</i>                                    |   |
| 11:15 a.m. | High Speed Trimaran program review              | Dr. Igor Mizine/CSC                                 |
| 11:45 a.m. | Axial Flow Waterjet Model Test review           | Mr. David Lavis/CDI Marine                          |
| 12:15 p.m. | <i>Lunch</i>                                    |   |
| 1:00 p.m.  | Pacific NW Agile Port System Demonstration      | Mr. Blair Garcia/TranSystems                        |
| 1:30 p.m.  | Alternative Power program review                | Mr. Joe Stroud/GMP LLC                              |
| 2:00 p.m.  | Structural Loads for Multi-Hulls program review | Mr. Manish Gupta/CDI Marine                         |
| 2:30 p.m.  | <i>Break</i>                                    |   |
| 2:45 p.m.  | Strategic Mobility 21                           | Mr. Ed Savacool/Intellitrans                        |
| 3:15 p.m.  | CCDoTT Program Summary                          | Mr. Stan Wheatley/CCDoTT<br>Mr. Steven Hinds/CCDoTT |
| 3:30 p.m.  | Adjourn   |   |
- (Informal meetings)*

**CCDoTT Advisory Committee**

Vice Admiral Al Herberger, USN ret., Chairman

Dr. Mahyar Amouzegar, Associate Dean for Research and Development  
CSULB College of Engineering

Vice Admiral Francis R. Donovan, USN ret.

Eugene Pentimonti, Vice President, Government Affairs  
Maersk, Inc.

Emanuel L. Rouvelas, Chairman  
Preston, Gates, Ellis & Rouvelas

J. Brian Sharkey, President  
ISW Corp.

Stanley Siegel, President  
Mari-Flite Ferries

Jordan Truchan, President & CEO  
American Ship Management, LLC

Lt. General Kenneth Wykle, USA ret., President  
National Defense Transportation Association (NDTA)

**CCDoTT Staff**

Stan Wheatley, CCDoTT Managing Director	(562) 985-7394	swheatle@csulb.edu sdwheatley@aol.com
Steven Hinds, CCDoTT Program Administrator	(562) 985-2259	shinds@csulb.edu
Dr. Ken James, CCDoTT Technical Coordinator	(562) 985-5105	james@csulb.edu
Dr. Anastasios Chassiakos, CCDoTT Tech. Coordinator	(562) 985-4278	achassk@csulb.edu
Susan Bailey, CCDoTT Administrative/Contracts Advisor	(562) 985-5233	sbailey@csulb.edu
Carrie Scoville, CCDoTT Program Coordinator	(562) 985-7395	cscovill@csulb.edu
Tina Tranilla, CCDoTT Financial Coordinator	(562) 985-7392	ttranill@csulb.edu

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**PRESENTER INFORMATION**

Stan Wheatley, Manager and Principal Investigator	CSULB CCDoTT
Steven Hinds, Program Administrator	CSULB CCDoTT
Dr. Hamid Hefazi, Professor and Chair	CSULB College of Engineering
Dr. Ken James, Professor	CSULB College of Engineering
David R. Lavis, Sr. VP and General Manager	CDI Marine, SDD
Manish Gupta, Project Manager	CDI Marine, SDD
Dr. Igor Mizine, Sr. Research Scientist	CSC
Blair R. Garcia, Vice President and Senior Associate	TranSystems Corporation
Ed Savacool, Consultant	Intellitrans, LLC
J. Douglass Coates, Prinicipal	Manalytics International, Inc.
Joseph A. Stroud, Managing Partner	General Management Partners

**California State University, Long Beach (CSULB)**

**Center for the Commercial Deployment of Transportation Technologies (CCDoTT)**

**Stan Wheatley, Manager and Principal Investigator**

Mr. Wheatley has been the CCDoTT Managing Director-Principal Investigator since 1999. He is responsible for management of all program activities involving commercial and university contracted assignments dealing with Agile Ports & Terminals, High-speed Ship systems, Rapid Deployment management and control systems, Command and Control systems for commercial and military applications, and maritime related Cargo control and Security systems. Mr. Wheatley holds a BS from the U.S. Merchant Marine Academy with Graduate Studies completed at the Stevens Institute of Technology, Nuclear Engineering at Lynchburg College, and completion of the Sr. Executive Management program from the Federal Executive Institute. He has current U.S. Coast Guard licenses as Chief Engineer, Steam Vessels, Unlimited Horsepower/Tonnage and Third Engineer, Motor Vessels, Unlimited Horsepower/Tonnage. He was formerly licensed as Senior Reactor Operator, USCG/USAEC N/S Savannah. He holds commissions as Rear Admiral, U.S. Maritime Service, ret. and Lt. Cdr. USNR, ret.

**Steven Hinds, Program Administrator**

Mr. Hinds has been Program Administrator for the past five years. He brings extensive experience in military logistics operations from both the operational and planning perspective. As a member of the Policy Staff and the Supreme Headquarters Allied Powers Europe, he was responsible for the policy coordination of NATO Military Defense Plan. As the Physical Security Officer for the United States Marine Corps, Mr. Hinds was responsible for all physical security issues throughout the Marine Corps; and coordinated with Department of Defense to develop a single standard for physical security guidelines for all services world-wide. Mr. Hinds has served in a number of roles with the United States Government, including that of Deputy Assistant Secretary of the Navy (FSN) (Acting). Mr. Hinds has 10 years experience as an analyst and program manager providing high-level decision makers on the OPNAV staff (N-80

Assessment Division) and the Marine Corps Combat Development Center with decision support analysis supporting the Navy Investment Balance Review (IBO), the Quadrennial Defense Review, and the Marine Expeditionary Forces (MEF) Combat Service Support Review. He has also participated in studies and war gaming joint force closure planning, Ready Reserve Fleet planning and use, infrastructure requirements, Mobility Requirements Study analysis, and many ship requirements studies.

### ***College of Engineering***

#### ***Dr. Hamid Hefazi, Professor, Aerospace Engineering and Chair, Mechanical and Aerospace Engineering Department***

Dr. Hefazi received his Ph.D. degree in Aerospace Engineering from the University of Southern California in 1985. He has been involved in a broad range of teaching and research activities in fluid mechanics, including geophysical fluid mechanics and computational fluid dynamics (CFD), with emphasis on the computation of transonic flows over complex geometries. His more recent works have been on the application of CFD in turbomachinery, aerodynamic design optimization, aeroacoustics, hydrodynamics, and advanced optimization methods. He has more than 38 papers and book chapters in various publications and is a senior member of the American Institute of Aeronautics and Astronautics. He has been the Principal Investigator for 28 externally funded research projects during the last eight years, including projects sponsored by Boeing, Northrop Grumman, Honeywell, National Science Foundation and the Office of Naval Research. Since 2000, he has been the task manager for the CCDoTT project on CFD Design Tool Development for Fast Ships, and the Co-Principal Investigator of two other CCDoTT projects on the development of stable ocean platforms and multi-disciplinary design and optimization methods for multi-hull vessels. He has worked as a consultant for the Prada 2000 America's Cup challenges in the areas of keel, hull and sail performance for race boats and continued in the same capacity for the 2003 challenge. He is the director of the CSULB's Computational Fluid Dynamics Research Laboratory as well as director of the "Boeing Technology Center" located in the College of Engineering. He is also a member of the California Space Grant Consortium.

#### ***Dr. Ken James, Professor, Electrical Engineering and Computer Engineering/Computer Science***

Dr. James joined the faculty at CSULB in 1978 where he is a Professor in both Electrical Engineering and Computer Engineering/Computer Science with research emphasis in fiber optics and advanced ASIC design. Since 1999 he has been Technical Coordinator for CCDoTT, where he oversees numerous High-Speed Ship and Agile Port projects. Upon receiving his B.S. in Physics in 1968 from Case Institute of Technology in Cleveland, he joined the technical staff of Rockwell International Research Division in Anaheim, California. While employed with Rockwell International as a Design Engineer for VLSI devices and fiber-optic sensors, he completed an M.S. in Electrical Engineering at California State University, Fullerton, in 1972 and a Ph.D. in Electrical Engineering at the University of California, Irvine, in 1982. In 1984, he formed OPCOA, Inc., in Garden Grove, California, and served as CEO until 1996. The company, through funded research from NASA, produced the first micromechanical optical filter for fiber communications. He is the author of 12 articles and has been awarded 15 patents.

***CDI Marine, Systems Development Division (SDD)***

***David Lavis, Senior V.P., Government Services and General Manager, SDD***

Mr. Lavis has worked for 45 years in the development of high-speed vessels for numerous foreign and domestic projects spanning initial conceptual design through construction, test and in-service operational phases. He has served as an advisor to NATO SWG-6, a committee of 12 countries concerned with high-performance ships, is a Fellow of the Royal Institution of Naval Architects, a Chartered Engineer in the UK, and holds a MS degree in Aeronautical Engineering from Cranfield Institute of Technology, U.K.

***Manish Gupta, Project Manager***

Currently employed as an Engineering Manager at CDI Marine – Systems Development Division, Manish Gupta has over 18 years of marine industry experience that includes both design and shipyard experience. In his present position, Mr. Gupta has responsibilities of both project and technical management, and he supervises a group of engineers and designers. He has a Bachelor's degree in Naval Architecture and Marine Engineering, a M.S. in Ocean Engineering, and a M.B.A. in Engineering Management. Mr. Gupta is a member of both ASNE and SNAME.

***Computer Sciences Corporation (CSC)***

***Dr. Igor Mizine, Sr. Research Scientist, Advanced Systems and Concepts Division***

Dr. Mizine is the SAIC Lead Scientist in high-speed ship technology development. With 29 years of experience in naval architecture and ship design, he is the foremost authority on fast ship systems. He has directed research and development programs for high speed vessels including the development of the VHST ship concept. Dr. Mizine holds a Ph.D. in Applied Hydrodynamics and Ship Design from Krylov Ship Research Institute, St. Petersburg, Russia.

***TranSystems Corporation***

***Blair Garcia, Vice President and Senior Associate***

As a maritime and rail freight and passenger planner, Mr. Garcia has participated in projects involving the planning of commercial and industrial facilities and corridors, land development, utilities layout and transportation planning. Mr. Garcia's work with TranSystems Corporation has focused on the design and planning of major maritime and intermodal transportation projects. His experience includes projects at major international maritime ports including the Port of Cherbourg, France; Jeddah Islamic Port, Saudi Arabia; and the Puerto Rico Port Authority. In addition to his international marine and rail planning experience, Mr. Garcia has been intimately involved in developing, evaluating and assessing new concepts and technologies (infrastructure, equipment and information technology) related to freight and passenger transport. This work includes the definition and evaluation of port agility and information technology improvement in marine terminals.

***Intellitrans, LLC***

***Ed Savacool, Consultant***

Ed Savacool has over 35 years of experience managing complex military and commercial organizations and projects. He is proficient in program management, acquisition planning support, transportation logistics, strategic sealift systems analysis, military force deployment analysis and operational testing of hardware and software systems. Ed joined IntelliTrans in July 2000. Prior to joining IntelliTrans, he was a Senior Program Manager at Stanley Associates for over seven years developing advanced ship loading models used for the design of Strategic Sealift and commercial roll-on/roll-off ships. He completed a military career with assignments as a Strategic Sealift Systems Manager and Team Chief for Army Transportation Management in the Office of the Deputy Chief of Staff for Logistics for the Department of the Army; Commander of an Ocean Terminal Management Battalion; and Chief of the Cargo Operations Division for US Forces in Europe.

***Manalytics International, Inc.***

***J. Douglass Coates, Principal***

J. Douglass Coates is a principal with Manalytics International, a San Francisco-based, employee-owned management consulting firm, specializing in the analysis of the movement of goods in domestic and international commerce. At Manalytics, Coates' recent consulting projects have included the development of a joint venture business plan for two major ocean carriers; marketing strategy and forecasting for a leading refrigeration company; and development of decision processes for Pacific Rim transportation vendor selection and participation in implementation. Coates' career has included five years at American President Companies, where he was president of American Consolidation Services; four years with Sun Carriers; twelve years with ITEL Corporation (including a spell as president, special division, with profit and loss responsibility for the reefer container division); and four years with management consultant A.T. Kearney & Co. Coates holds an M.B.A. from the Wharton School, University of Pennsylvania, and a B.S. in Industrial Engineering from The Pennsylvania State University.

***General Management Partners (GMP), LLC***

***Joseph A. Stroud, Managing Partner***

Mr. Stroud has 25 years of experience in finance and economic analysis. He has been Partner/Consultant of J. F. Lehman Equity Investors I, LP, Executive Vice President and CFO of Sperry Marine Inc., Vice President of Finance and Administration of Astra Holdings Corps., Vice President Finance and Business Operations of General Defense Corporation, and Director of Financial Planning, Manager of Finance Autodin Systems, Cost/Rate Analyst for Western Union Telegraph Company.