

## Organizations and Users with Access to the TRACC HPC Clusters

<b>3-D Numerical Simulation of Direct-Injection, Mixture Formation and Combustion in a Hydrogen Engine</b>		
	ES Division, Argonne	
	<i>Scarcelli, Riccardo</i>	<i>User</i>
	US DOE Engines and Emissions Control Technologies	
	<i>Singh, Gurpreet</i>	<i>Cognizant Engineer</i>
<b>A Microstructure-Based Modeling Approach to Characterize Asphalt Materials</b>		
	Michigan Department of Transportation	
	<i>Staton, John</i>	<i>Cognizant Engineer</i>
	Michigan Technological University	
	<i>Barak, John</i>	<i>Cognizant Engineer</i>
	<i>Colbert, Baron</i>	<i>User</i>
	<i>Dai, Qingli</i>	<i>User</i>
	<i>Lu, Haizhu</i>	<i>User</i>
	<i>Ng, Kenny</i>	<i>User</i>
	<i>You, Zhanping</i>	<i>Cognizant Engineer</i>
<b>Analysis and Design of Roadside Safety Features for Safety Performance</b>		
	Texas Transportation Institute	
	<i>Abu-Odeh, Akram Y.</i>	<i>User</i>
	<i>Bligh, Roger P.</i>	<i>Cognizant Engineer</i>
	<i>Sheikh, N.M.</i>	<i>User</i>
<b>Analysis of THOR-NT Dummy for Vertical Impact Environments</b>		
	NASA Langley	
	<i>Annett, Martin S.</i>	<i>Cognizant Engineer</i>
	Virginia Tech	
	<i>Putnam, Jacob</i>	<i>User</i>
	<i>Untaroi, Costin</i>	<i>User</i>
<b>Application of Chaos Theory Analysis to Structural Health Monitoring of Cable-Stayed Bridges</b>		
	FHWA NDE	
	<i>Jalinoos, Frank</i>	<i>Cognizant Engineer</i>
	<i>Jin, Shuang</i>	<i>User</i>

<b>Application of TRANSIMS for Highway Work Zones</b>		
	FHWA OoP	
	<i>Yang, David</i>	<i>Cognizant Engineer</i>
	Western Michigan University	
	<i>Oh, Jun-Seok</i>	<i>User</i>
<b>Assessment Of Occupant Kinematics in Rollovers; Rollover Crash Analysis</b>		
	NHTSA HID	
	<i>Barsan-Anelli, Aida Cristina</i>	<i>User</i>
	<i>Ridella, Stephen</i>	<i>Cognizant Engineer</i>
	TRACC, Argonne	
	<i>Bojanowski, Cezary</i>	<i>User</i>
<b>Bridge Hydraulics - Analysis Support for Hydraulics Research in Transportation Applications</b>		
	TFHRC	
	<i>Kerenyi, Kornel</i>	<i>Cognizant Engineer</i>
	<i>Xie, Zhaoding</i>	<i>User</i>
	TRACC, Argonne	
	<i>Lottes, Steven A.</i>	<i>Cognizant Engineer</i>
	<i>Sofu, Tanju</i>	<i>Cognizant Engineer</i>
	University of Nebraska-Lincoln	
	<i>Bushra, Afzal</i>	<i>User</i>
	<i>Guo, Junke</i>	<i>Cognizant Engineer</i>
	<i>Shan, Haoyin</i>	<i>User</i>
	<i>Zhai, Yuan</i>	<i>User</i>
<b>Bridge Scour Modeling Using CFD</b>		
	California Department of Transportation	
	<i>Flora, Kevin Scott</i>	<i>Cognizant Engineer</i>
<b>CFD Analysis of Outlet Modifications to Improve Highway Pipe Efficiency at Peak Flows</b>		
	Maine Department of Transportation	
	<i>Hebson, Charles</i>	<i>Cognizant Engineer</i>
	<i>Mann, Alexander</i>	<i>User</i>
	<i>Pearce, Bryan</i>	<i>User</i>
	TFHRC	
	<i>Kerenyi, Kornel</i>	<i>User</i>
<b>CFD Modeling of FDOT's Sediment Erosion Rate Flume (SERF)</b>		
	Florida Department of Transportation	
	<i>Renna, Rick</i>	<i>Cognizant Engineer</i>
	University of Florida	
	<i>Crowley, Raphael</i>	<i>User</i>
	<i>Robeck, Corbin</i>	<i>User</i>
	University of Nebraska-Omaha	
	<i>Li, Chen</i>	<i>User</i>
	<i>Woldeyesus, Kokob Zeremariam</i>	<i>User</i>

<b>Chicago Business District Evacuation (IDOT)</b>		
	NE Division, Argonne	
	<i>Tentner, Adrian M.</i>	<i>User</i>
	Northern Illinois University	
	<i>E, Manli</i>	<i>Developer</i>
	<i>Liu, Lichuan</i>	<i>Developer</i>
	<i>Pasupuleti, Lok Aradhya</i>	<i>User</i>
	<i>Ronanki, Bharani</i>	<i>Developer</i>
<b>Chicago North Side Water Reclamation Plant Studies</b>		
	TRACC, Argonne	
	<i>Lottes, Steven A.</i>	<i>Cognizant Engineer</i>
	University of Illinois at Urbana-Champaign	
	<i>Garcia, Marcelo</i>	<i>Cognizant Engineer</i>
	<i>Sinha, Sumit</i>	<i>User</i>
	<i>Tokyay, Talia Ekin</i>	<i>User</i>
<b>CMAP Activity-Based Model</b>		
	CMAP	
	<i>Heither, Craig</i>	<i>User</i>
	<i>Stratton, Matt</i>	<i>User</i>
	<i>Wies, Kermit</i>	<i>User</i>
	FHWA OoP	
	<i>Gardner, Brian</i>	<i>Cognizant Engineer</i>
<b>Computational Mechanics Research and Support for Aerodynamics and Hydraulics at TFHRC</b>		
	Northern Illinois University	
	<i>Lanka Venkata, Sudhir Kumar</i>	<i>User</i>
	TRACC, Argonne	
	<i>Lottes, Steven A.</i>	<i>Cognizant Engineer</i>
<b>Computer Aided Mix Design (CAMiD) Technical and Analysis Support for Advanced Computational Needs -- Bituminous Mixtures Laboratory at FHWA Turner-Fairbank Research Center</b>		
	FHWA OoP	
	<i>Gibson, Nelson</i>	<i>User</i>
	TFHRC	
	<i>Kutay, Muhammed Emin</i>	<i>Cognizant Engineer</i>
<b>CRIS Test Modeling</b>		
	NHTSA	
	<i>Kruszewski, Piotr Mateusz</i>	<i>User</i>
<b>Design-oriented Scoured Foundation Modeling for Bridge Performance Analysis</b>		
	University of Missouri-Kansas City	
	<i>Chen, ZhiQiang</i>	<i>User</i>
<b>Determining Wheel-Soil Interaction Loads using a Meshfree Finite Element Approach</b>		
	NASA JPL	
	<i>Contreras, Michael</i>	<i>Cognizant Engineer</i>

<b>Development and Evaluation of Climate Metrics for Aviation based on Climate-Chemistry Modeling Analyses</b>			
FAA			
		<i>Jacob, Daniel</i>	<i>Cognizant Engineer</i>
University of Illinois at Urbana-Champaign			
		<i>Lee, Huikyo</i>	<i>User</i>
		<i>Olsen, Seth</i>	<i>User</i>
		<i>Patten, Kenneth</i>	<i>User</i>
		<i>Wang, Dong</i>	<i>User</i>
		<i>Wuebbles, Donald</i>	<i>User</i>
<b>Development and Improvement of Roadside Safety Barriers</b>			
TFHRC			
		<i>Arispe, Eduardo N.</i>	<i>User</i>
		<i>Eigen, Ana Maria</i>	<i>User</i>
		<i>Opiela, Kenneth</i>	<i>Cognizant Engineer</i>
TRACC, Argonne			
		<i>Bojanowski, Cezary</i>	<i>Cognizant Engineer</i>
<b>Development of TRANSIMS Models to Evaluate Traffic Management Plans for Special Events and Construction Projects in the Chicago Business District</b>			
IIT			
		<i>Lee, Sang Hyuk</i>	<i>User</i>
		<i>Lee, YongDoo</i>	<i>User</i>
		<i>Li, Zongzhi</i>	<i>User</i>
		<i>Rahman, Asadur</i>	<i>User</i>
		<i>Veliou, Eirini</i>	<i>User</i>
TRACC, Argonne			
		<i>Ley, Hubert</i>	<i>Cognizant Engineer</i>
<b>Development of TRANSIMS Software for use in Parallelization of TRANSIMS</b>			
AECOM			
		<i>Patnam, Krishna Chandra</i>	<i>User</i>
		<i>Roden, David</i>	<i>Cognizant Engineer</i>
Argonne			
		<i>Toonen, Brian R.</i>	<i>User</i>
		<i>Yelchuru, Balaji</i>	<i>User</i>
USDOT			
		<i>Gardner, Brian</i>	<i>Cognizant Engineer</i>
<b>Development of TRANSIMS Tools and Methodology for the Atlanta Metropolitan Area</b>			
Georgia Tech			
		<i>Guin, Angshuman</i>	<i>User</i>
		<i>Leonard, John</i>	<i>Cognizant Engineer</i>
		<i>Shealey, Stephanie Lynne</i>	<i>User</i>
TRACC, Argonne			
		<i>Ley, Hubert</i>	<i>Cognizant Engineer</i>

<b>Development of TRANSIMS Visualization Software Metropolis</b>			
	NCSA		
		<i>Betts, Alex</i>	<i>User</i>
		<i>Cox, Donna</i>	<i>User</i>
		<i>Hall, Matthew</i>	<i>User</i>
		<i>Levy, Stuart</i>	<i>User</i>
		<i>Patterson, Robert</i>	<i>User</i>
	TRACC, Argonne		
		<i>Ley, Hubert</i>	<i>Cognizant Engineer</i>
<b>Electromagnetic Shock Absorber</b>			
	Northern Illinois University		
		<i>Fisher, Francisco Lucas</i>	<i>User</i>
		<i>Gupta, Abhijit</i>	<i>Cognizant Engineer</i>
	TRACC, Argonne		
		<i>Bojanowski, Cezary</i>	<i>Cognizant Engineer</i>
		<i>Kulak, Ronald F.</i>	<i>Cognizant Engineer</i>
<b>Evaluation of Thor Dummy FE Model in Crash Environments</b>			
	NHTSA HID		
		<i>Ridella, Stephen</i>	<i>Cognizant Engineer</i>
	University of Virginia		
		<i>Untaroiu, Costin</i>	<i>User</i>
<b>FHWA Signal Processing, Data Analysis and Computational Modeling for Highway Applications</b>			
	TFHRC		
		<i>Chintakunta, Satish Reddy</i>	<i>User</i>
		<i>Cobb, Lincoln</i>	<i>Cognizant Engineer</i>
		<i>Gagarin, N.</i>	<i>User</i>
		<i>Mekemson, James Robert</i>	<i>User</i>
		<i>Scott, Michael</i>	<i>Cognizant Engineer</i>
	TRACC, Argonne		
		<i>Bojanowski, Cezary</i>	<i>Cognizant Engineer</i>
<b>Geosynthetic-Reinforced Soil Integral Bridge System; Scour Countermeasure Design; Deformation Analysis of Bridge Supported on Shallow Foundations</b>			
	FHWA OoP		
		<i>Hartmann, Joey</i>	<i>Cognizant Engineer</i>
		<i>Nicks, Jennifer</i>	<i>User</i>
<b>Impact of Wide Base Tires on Pavements - A National Study</b>			
	FHWA IR&D		
		<i>Weaver, Eric</i>	<i>Cognizant Engineer</i>
	University of Illinois at Urbana-Champaign		
		<i>Al-Qadi, Imad L.</i>	<i>User</i>
		<i>Gamez, Angeli</i>	<i>User</i>
		<i>Hernandez, Jaime</i>	<i>User</i>
		<i>Ozer, Hasan</i>	<i>User</i>

<b>Improvements of LS-Dyna Models for Off-Road Traffic Accident Analysis</b>			
	Kineticorp		
		<i>Carter, Neal</i>	<i>User</i>
		<i>Rose, Nathan</i>	<i>User</i>
		<i>Zhu, Ling</i>	<i>User</i>
<b>Inner Nozzle Flow characterization of Biodiesel from Different Feedstocks</b>			
	Argonne		
		<i>Som, Sibendu</i>	<i>User</i>
	TRACC, Argonne		
		<i>Lottes, Steven A.</i>	<i>Cognizant Engineer</i>
	US DOE EERE Vehicle Tech Prog		
		<i>Stork, Kevin</i>	<i>Cognizant Engineer</i>
<b>In-situ Load Rating of Highway Bridges</b>			
	University of Virginia		
		<i>Chase, Robert Paul</i>	<i>User</i>
		<i>Chase, Steven Bradley</i>	<i>Cognizant Engineer</i>
		<i>Jin, Shuang</i>	<i>User</i>
<b>Investigation of Bridge Pier and Abutment Scour Using Large Eddy Simulation</b>			
	University of Iowa		
		<i>Constantinescu, Serban George</i>	<i>Cognizant Engineer</i>
		<i>Dunn, Mark</i>	<i>User</i>
		<i>Miyawaki, Shinjiro</i>	<i>User</i>
		<i>Tokyay, Talia Ekin</i>	<i>User</i>
		<i>Yuksel Ozan, Ayse</i>	<i>User</i>
<b>Investigation of Impact Factors for FDOT Bridges; and the Best Practices in Construction of Paratransit Buses</b>			
	FAMU-FSU		
		<i>Gepner, Bronislaw Dominik</i>	<i>User</i>
		<i>Kwasniewski, Leslaw</i>	<i>User</i>
		<i>Siervogel, Jeff</i>	<i>User</i>
		<i>Taft Ford, Eduardo E.</i>	<i>User</i>
		<i>Wekezer, Jerry</i>	<i>User</i>
	Florida Department of Transportation		
		<i>Westbrook, Robert</i>	<i>Cognizant Engineer</i>
	TRACC, Argonne		
		<i>Bojanowski, Cezary</i>	<i>Cognizant Engineer</i>
<b>Investigation of Occupant Injury Mechanism in Vehicle Small Overlap Impacts</b>			
	NHTSA		
		<i>Parent, Daniel</i>	<i>Cognizant Engineer</i>
	University of Virginia		
		<i>Crandall, Jeff</i>	<i>User</i>
		<i>Yue, Neng</i>	<i>User</i>

<b>Investigation of Occupant Response in Vehicle Crash</b>		
	NHTSA	
	<i>Parent, Daniel</i>	<i>Cognizant Engineer</i>
	University of Virginia	
	<i>Bollapragada, Varun</i>	<i>User</i>
	<i>Panzer, Matthew Brian</i>	<i>User</i>
	<i>Park, Gwansik</i>	<i>User</i>
	<i>Poulard, David</i>	<i>User</i>
	<i>Shin, Jae Ho</i>	<i>User</i>
	<i>Zhang, Qi</i>	<i>User</i>
<b>Investigation of River Flow and Transport Processes Using High Resolution Eddy Resolving CFD Simulations</b>		
	South Florida Water Management District	
	<i>Zeng, Jie</i>	<i>User</i>
	TRACC, Argonne	
	<i>Lottes, Steven A.</i>	<i>Cognizant Engineer</i>
	University of Iowa	
	<i>Chang, Kyoungsik</i>	<i>User</i>
	<i>Constantinescu, Serban George</i>	<i>Cognizant Engineer</i>
	<i>Kashyap, Shalini</i>	<i>User</i>
	<i>Steenhauer, Kate</i>	<i>User</i>
	<i>Suhodolova, Tatiana</i>	<i>User</i>
<b>Large Eddy Simulation of Interaction of Turbulent Flow with a Porous Media</b>		
	TRACC, Argonne	
	<i>Lottes, Steven A.</i>	<i>Cognizant Engineer</i>
	University of Illinois at Urbana-Champaign	
	<i>Samala, Rahul</i>	<i>User</i>
	<i>Vanka, Pratap</i>	<i>User</i>
<b>Large Scale Evacuation Planning with Microscopic Traffic Simulation</b>		
	ORNL	
	<i>Liu, Cheng</i>	<i>User</i>
	<i>Lu, Wei</i>	<i>User</i>
<b>Management</b>		
	ES Division, Argonne	
	<i>Drucker, Harvey</i>	<i>Manager</i>
	TRACC, Argonne	
	<i>Ley, Hubert</i>	<i>Manager</i>
	<i>Tate, Gail</i>	<i>Manager</i>
	<i>Weber, David</i>	<i>Manager</i>

<b>Modeling Hot Mix Asphalt Compaction - Technical Support for Pavement Design and Performance Modeling Team</b>		
Delft University of Technology		
	<i>Jonsthovel, Tom Bernard</i>	<i>User</i>
	<i>Koneru, Saradhi</i>	<i>User</i>
	<i>Liu, X.</i>	<i>User</i>
	<i>Scarpas, Athanasios</i>	<i>User</i>
FHWA NDE		
	<i>Kasbergen, Cornelis</i>	<i>User</i>
	<i>Weaver, Eric</i>	<i>Cognizant Engineer</i>
Texas A&M		
	<i>Masad, Eyad</i>	<i>User</i>
<b>Modeling Soil-Structure Interaction in the Presence of Large Soil Deformations</b>		
TRACC, Argonne		
	<i>Bojanowski, Cezary</i>	<i>User</i>
	<i>Kulak, Ronald F.</i>	<i>User</i>
<b>Moreno Valley TRANSIMS Transportation Modeling/ITS</b>		
FHWA OoP		
	<i>Gardner, Brian</i>	<i>Cognizant Engineer</i>
Moreno Valley		
	<i>Gross, Mark</i>	<i>User</i>
	<i>Keller, James</i>	<i>User</i>
	<i>Kerenyi, John</i>	<i>Cognizant Engineer</i>
	<i>Lloyd, Michael David</i>	<i>User</i>
	<i>Minard, Mark</i>	<i>User</i>
	<i>Van Simaey's Jr, Julien</i>	<i>User</i>
<b>MOVES (Motor Vehicle Emission Simulator), Modeling emissions from on road vehicles</b>		
EPA Office of Transportation and Air Quality		
	<i>Aikman, William Russell</i>	<i>Cognizant Engineer</i>
	<i>Beardsley, Megan</i>	
	<i>Brzezinski, David</i>	<i>User</i>
	<i>Choi, Jongwoo David</i>	<i>User</i>
	<i>Church, Thomas Michael</i>	<i>User</i>
	<i>Faler, Wesley Gordon</i>	<i>User</i>
	<i>Glover, Ed</i>	<i>User</i>
	<i>Kahan, Ari</i>	<i>User</i>
	<i>Maciag, Ted</i>	<i>User</i>
	<i>Michaels, Harvey</i>	<i>Cognizant Engineer</i>
	<i>Shyu, Gwo Ching</i>	<i>User</i>
TRACC, Argonne		
	<i>Ley, Hubert</i>	<i>Cognizant Engineer</i>
<b>MOVES Air Pollutant Emission Analysis for the GREET Model</b>		
Argonne		
	<i>Burnham, Andrew</i>	<i>User</i>

<b>NCAC Finite Element Models Assessment</b>			
	George Washington University		
		<i>Marzougui, Dhafer</i>	<i>User</i>
		<i>Tahan, Fadi</i>	<i>User</i>
	TFHRC		
		<i>Opiela, Kenneth</i>	<i>Cognizant Engineer</i>
<b>NHTSA Human Injury Research Division</b>			
	NHTSA		
		<i>Parent, Daniel</i>	<i>User</i>
	NHTSA HID		
		<i>Takhounts, Erik</i>	<i>Cognizant Engineer</i>
<b>Nonlinear Analysis of Cable-Stayed Bridge Cables</b>			
	Northern Illinois University		
		<i>Balpande, Rohit Suresh</i>	<i>User</i>
		<i>Gupta, Abhijit</i>	<i>Cognizant Engineer</i>
		<i>Vannemreddi, S.</i>	<i>User</i>
		<i>Vannemreddy, B.</i>	<i>User</i>
	TRACC, Argonne		
		<i>Kulak, Ronald F.</i>	<i>Cognizant Engineer</i>
<b>Numerical Investigation of Single Point Incremental Forming</b>			
	Northwestern University		
		<i>Cao, Jian</i>	<i>Cognizant Engineer</i>
		<i>Huang, Ying</i>	<i>User</i>
<b>Open Channel Flow, Bridge Hydraulics, and Bridge Scour</b>			
	Northern Illinois University		
		<i>Biswas, Dipankar</i>	<i>User</i>
		<i>Edwards, Christopher M.</i>	<i>User</i>
		<i>Elapolu, Phani Ganesh</i>	<i>User</i>
		<i>Kostic, Milivoje</i>	<i>Cognizant Engineer</i>
		<i>Majumdar, Pradip</i>	<i>Cognizant Engineer</i>
		<i>Pati, Vishnu Vardhan Reddy</i>	<i>User</i>
		<i>Tulimilli, Bhaskar Rao</i>	<i>User</i>
	TRACC, Argonne		
		<i>Lottes, Steven A.</i>	<i>Cognizant Engineer</i>
<b>Picoscopic Modeling of Transportation Systems</b>			
	UMASS Amherst		
		<i>Collura, John</i>	<i>Cognizant Engineer</i>
		<i>Leiner, Gabriel</i>	<i>User</i>
<b>Ricardo CRADA</b>			
	Argonne Tribology Section		
		<i>Demas, Nicholas G.</i>	<i>User</i>
		<i>Erck, Robert A.</i>	<i>User</i>
		<i>Fenske, George R.</i>	<i>Cognizant Engineer</i>

<b>RTSTEP: Regional Transportation Simulation Tool for Evacuation Planning</b>			
AECOM			
		<i>Choi, Jongwoo David</i>	<i>User</i>
		<i>Gregerson, Christopher</i>	<i>User</i>
		<i>Patnam, Krishna Chandra</i>	<i>User</i>
		<i>Roden, David</i>	<i>User</i>
		<i>Santhanam, Srividya</i>	<i>User</i>
		<i>Singuluri, Sashank</i>	<i>User</i>
CDOT			
		<i>Emmanuel, Abraham</i>	<i>Advisor</i>
City of Chicago - Office of Emergency Management			
		<i>Halac, Yilmaz</i>	<i>Sponsor</i>
IIT			
		<i>Arthur, Christina</i>	<i>User</i>
		<i>Liu, Yi</i>	<i>User</i>
		<i>Liu, Yifang</i>	<i>User</i>
		<i>Lu, Xi</i>	<i>User</i>
		<i>Qu, Fei</i>	<i>User</i>
		<i>Yi, Bo</i>	<i>User</i>
		<i>Zhong, Yaoqian</i>	<i>User</i>
		<i>Zhou, Bei</i>	<i>User</i>
Northern Illinois University			
		<i>Moraga, Reinaldo J.</i>	<i>User</i>
		<i>Tanaka, Raul Augusto Alvarez</i>	<i>User</i>
		<i>Zhang, Quan</i>	<i>User</i>
TRACC, Argonne			
		<i>Auld, Joshua</i>	<i>Developer</i>
		<i>Holifield, Justin</i>	<i>User</i>
		<i>Hope, Michael</i>	<i>Developer</i>
		<i>Kang, Sherry</i>	<i>User</i>
		<i>Park, Young Soo</i>	<i>User</i>
		<i>Qualls, Timothy</i>	<i>User</i>
		<i>Sokolov, Vadim O.</i>	<i>Cognizant Engineer</i>
		<i>Zhang, Kuilin</i>	<i>Developer</i>
<b>SACOG TRANSIMS Implementation</b>			
Resource Systems Group, Inc			
		<i>Bowman, John L.</i>	<i>User</i>
		<i>Bradley, Mark Andrew</i>	<i>User</i>
		<i>Castiglione, Joseph</i>	<i>User</i>
		<i>Lawe, Stephen</i>	<i>User</i>
		<i>Mulandi, James</i>	<i>User</i>
		<i>Rentz, Erich</i>	<i>User</i>
USDOT			
		<i>Gardner, Brian</i>	<i>Cognizant Engineer</i>
		<i>Grady, Brian Robert</i>	<i>Cognizant Engineer</i>

<b>SANDAG Activity-Based Model</b>			
	SANDAG		
	<i>Daniels, Clint</i>		<i>Cognizant Engineer</i>
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<b>Study of Erosion Mechanisms at Piers of Rectangular Shape using Eddy Resolving Techniques and use of the Databases for Improvement of RANS Scour Models</b>		
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<b>Transient Structural Dynamics of Bridges Subjected to Traffic, Seismic and Blast Loadings</b>		
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<b>TRANSIMS Technology and Tools development technical assistance for the development Buffalo USA/Canadian Region cross-border model.</b>		
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<b>Vehicle Stability under High Winds</b>		
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## **Advanced Degrees Awarded to Graduate School Students for Computational Fluid Dynamics Work Done on TRACC High Performance Computer Clusters on Problems of Importance to the FHWA Turner-Fairbank Highway Research Center and U.S. DOT**

1. Bishwadipa Das Adhikary, "Flow and Pressure Scour Analysis of an Open Channel Flow Having an Inundated Bridge Deck under Various Flooding Conditions," M.S. Thesis, Northern Illinois University, July 2008
2. Dipankar Biswas, "Development of an Iterative Scouring Procedure for Implementation in CFD Code for Open Channel Flow under Different Bridge Flooding Conditions," M.S. Thesis, Northern Illinois University, June 2009
3. Afzal Bushra, "Computational Fluid Dynamic Analysis of Hydrodynamic Forces on Inundated Bridge Decks and the Effect of Scaling," Ph.D. Thesis, University of Nebraska, November 2009
4. Bhaskar Rao Tulimilli, "Development of a Three-dimensional Scouring Methodology and its Implementation in Commercial CFD Code for Open Channel Flow Over a flooded Bridge Deck," M.S. Thesis, Northern Illinois University, June 2010
5. Phani Ganesh, Development of Three-Dimensional Iterative Methodology Using a Commercial CFD Code For Flow Scouring Around Bridge Piers, M.S. Thesis, Northern Illinois University, October 2010
6. Vishnu Vardhan Reddy Pati, "CFD Modeling and Analysis of Flow through Culverts," M.S. Thesis, Northern Illinois University, October 2010
7. Zhaoding Xie, "Theoretical and Numerical Research on Sediment Transport in Pressurised Flow Conditions," Ph.D. Thesis, University of Nebraska, July 2011
8. Chris Edwards, "3-D Mesh Morphing Iterative Methodology for Flow Scouring Around Bridge Piers Implemented in a Commercial CFD Code," M.S. Thesis, Northern Illinois University, August 2011
9. Yuan Zhai, "Time-Dependent Scour Depth under Bridge-Submerged Flow," M.S. Thesis, University of Nebraska, May 2010
10. Yuan Zhai, "CFD Modeling of Fish Passage in Large Culvert and Assistance for Culvert Design with Fish Passage," Ph.D. Thesis, University of Nebraska, July 2013

Dr. Steven Lottes, Argonne TRACC, served on the thesis committees for Bishwadipa Das Adhikary, Dipankar Biswas, Bhaskar Rao Tulimilli, Phani Ganesh, Chris Edwards, and Vishnu Vardhan Reddy Pati.

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## **Advanced Degrees Awarded to Graduate School Students for Computational Structural Mechanics Work Done on TRACC High Performance Computer Clusters on Problems of Importance to the U.S. DOT**

1. Rohan Patil, "Stability of Single-Unit Truck under Wind Loading", M.S. Thesis, Northern Illinois University, December 2011, directed by Abijith Gupta
2. Francesco Lucas Fisher, "Design of a Semi-Active Controllable Electromagnetic Shock Absorber", M.S. Thesis, Northern Illinois University, December 2011, directed by Abijith Gupta
3. Eduardo E. Taft Ford, "Dynamic Interaction Between Heavy Vehicles and Highway Bridges", M.S. Thesis, Florida State University, October 2010, directed by Jerry Wekezer
4. Bharathi Vannemreddy, "Aerodynamic Vibrations of Stay Cables of a Cable Stayed Bridge", M.S. Thesis, Northern Illinois University, August 2010, directed by Abijith Gupta
5. Srihari Vannemreddi, "Numerical Modeling of Stay Cables and Stay Cable Bridges" , M.S. Thesis, Northern Illinois University, August 2010, directed by Abijith Gupta
6. Sharnie Earle, "Evaluation of Dynamic Load Allowance Factors for Reinforced Concrete Highway Bridges", M.S. Thesis, Florida State University, April 2010, directed by Jerry Wekezer

Dr. Ronald F. Kulak served on the thesis committees for Rohan Patil, Francesco Lucas Fisher, Bharathi Vannemreddy, and Srihari Vannemreddi

Dr. Cezary Bojanowski served on the thesis committees for Rohan Patil, Francesco Lucas Fisher, and Srihari Vannemreddi. He also advised to Eduardo E. Taft Ford and Sharnie Earle on their thesis.

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