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EDUCATION

- Ph.D., Civil Engineering, Texas A&M University, 2001
- M.S., Civil Engineering, Texas A&M University, 1988
- B.S., Civil Engineering, Texas A&M University, 1985

EXPERIENCE

- Senior Research Engineer, Texas Transportation Institute, September 2015 – present
- Regents Fellow, Texas A&M University System, December 2009 – present
- Research Engineer, Roadside Safety Program, Texas Transportation Institute, September 2006 – September 2015
- Associate Research Engineer, Roadside Safety Program, Texas Transportation Institute, December 2001 – August 2006
- Director, Center for Transportation Computational Mechanics, Texas Transportation Institute, January 1998 – Present
- Manager, Roadside Safety Program, Texas Transportation Institute, September 1995 – Present
- Assistant Research Engineer, Roadside Safety Program, Texas Transportation Institute, April 1994 - November 2001
- Engineering Research Associate, Texas Transportation Institute, March 1988 - March 1994
- Research Assistant, Texas Transportation Institute, April 1986 - February 1988.

PROFESSIONAL REGISTRATION

- Registered Professional Engineer in Texas, Registration No. 78550.

AFFILIATIONS

- Member, Tau Beta Pi – The Engineering Honor Society
- Member, Phi Kappa Phi - National Honor Society
- Member, Chi Epsilon - The National Civil Engineering Honor Society
- Handling Editor, Transportation Research Record, Journal of the Transportation Research Board, 2021 – Present
- Member, American Traffic Safety Services Association (ATSSA), Texas Chapter, Sign Committee, 2021 – Present

- Member, Transportation Research Board (TRB), Subcommittee AKD20(3), In-Service Performance Evaluation, 2021 – Present
- Chairman, Transportation Research Board (TRB), Committee AFB20/AKD20, Roadside Safety Design, 2015 – 2021
- Vice-Chairman, Transportation Research Board (TRB), Committee AFB20, Roadside Safety Design, 2010 – 2013
- Member, Transportation Research Board (TRB), Subcommittee AFB20(1)/AKD20(1), Computational Mechanics, 2010 - 2021
- Member, Council of Principal Investigators, TAMUS, 2008 – 2011
- Member, American Traffic Safety Services Association (ATSSA), Guardrail Committee, 2008 – Present
- Member, American Traffic Safety Services Association (ATSSA), Guardrail Education Task Force, 2007 – Present
- Panel Member, National Cooperative Highway Research Program, Project 22-23, "Criteria for Restoration of Longitudinal Barriers," 2006 - 2010
- Member, Transportation Research Board (TRB), Committee AFB20, Roadside Safety Design, 2004 - 2013
- Chairman, Transportation Research Board (TRB), Subcommittee AFB20(1), Computational Mechanics, 2004 - 2010
- Member, Transportation Research Board (TRB), Subcommittee AFB20(2)/AKD20(2), International Research Activities, 2004 – Present
- Co-Chairman, AASHTO/AGC/ARTBA Task Force 13, Subcommittee on Bridge Rails and Transitions, 2003 - 2018
- Expert Advisory Panel, National Cooperative Highway Research Program, Project 17-24, "Use of Event Data Recorder (EDR) Technology for Roadside Crash Data Analysis," 2002 - 2003
- Co-Chair, Structures & Hydraulics Session, Transportation Short Course, 2001 – 2016
- Chairman, Transportation Research Board (TRB), Subcommittee A2A04(1), Computer Simulation, 1999 - 2003
- Member, Transportation Research Board (TRB), Subcommittee A2A04(2), International Research Activities, 1999 - 2003
- Member, Transportation Research Board, Committee A2A04, Roadside Safety Features, 1998-2003
- Member, Council of Principal Investigators, TAMUS, 1997 – 1999
- Co-Chairman, Strategic Management Team, TTI, 1995 – 1996
- Member, Quality Council, TTI, 1995 – 1997
- Member, Strategic Management Team, TTI, 1994 – 1997
- Member, Transportation Research Board (TRB), Subcommittee A2A04(1), Computer Simulation, 1993 - 1998.

HONORS / AWARDS

- Kenneth A. Stonex Award for Career Achievement in Roadside Safety, Transportation Research Board, Committee AKD20, 2023.
- Best Paper Award, Transportation Research Board, Committee AKD20, 2023, for the paper, MASH TL-3 Modified Single Wood-Post Skid-Mounted Sign Support System.

- Charlie V. Wootan Award for Career Achievement in Research, Texas A&M Transportation Institute, 2019
- Employee of the Year, Roadside Safety and Physical Security Division, Texas A&M Transportation Institute, 2014
- Practice-Ready Paper Award, Design and Construction Group, Transportation Research Board, 2013, for the paper MASH TL-2 Guardrail-to-Bridge Rail Transition Compatible with 31-inch Guardrail
- G. Sadler Bridges Senior Researcher Award, Texas A&M Transportation Institute, 2013.
- Best Paper Award, Transportation Research Board, Committee AFB20, 2013, for the paper, MASH TL-2 Guardrail-to-Bridge Rail Transition Compatible with 31-inch Guardrail.
- K. B. Woods Award, Transportation Research Board, 2013, for the paper, Minimum Rail Height and Design Impact Load for Manual for Assessing Safety Hardware TL-4 Longitudinal Barriers.
- Practice-Ready Paper Award, Transportation Research Board, 2010, for the paper Application of a Precast Concrete Barrier Adjacent to a Steep Roadside Slope
- Regents Fellow Service Award, Texas A&M University System, 2009
- Office of Technology Commercialization Innovation Award, Texas A&M University System, 2009
- Herbert H. Richardson Team Award, Texas Transportation Institute, 2008.
- Certificate of Recognition, Customs and Border Patrol Fence Lab Team, Sandia National Laboratory, April 2008.
- K. B. Woods Award, Transportation Research Board, 2006, for the paper, Low-Deflection Portable Concrete Barrier.
- Best Paper Award, Transportation Research Board, Committee AFB20, 2006, for the paper, Low-Deflection Portable Concrete Barrier.
- K. B. Woods Award, Transportation Research Board, 2005, for the paper, Guardrail-to-Concrete Bridge Rail Transition for Low-Speed Roadways.
- Best Paper Award, Transportation Research Board, Committee AFB20, 2005, for the paper, Guardrail-to-Concrete Bridge Rail Transition for Low-Speed Roadways.
- Spirit of Innovation Award for Public Benefit, Texas A&M University System, 2003
- Best Paper Award, Transportation Research Board, Committee A2A04, 2003, for the paper, A Review of Cable/Wire Rope Barrier Design Considerations
- Top Ten Research Findings and Innovations Award, Texas Department of Transportation, 1999, for the Development of Generic Traffic Control Devices for Work Zones
- Invited Attendee, Horizons in Engineering Symposium, 1998
- Best Paper Award, Transportation Research Board, Committee A2A04, 1995, for the paper, Slotted Rail Guardrail Terminal
- TTI Researcher Award, Texas Transportation Institute, 1995.

SELECTED PUBLICATIONS

- Silvestri Dobrovolny, C., Park, S. H., Turner, S., Bligh, R., Kovar, J., *Development of a MASH Barrier to Shield Pedestrians, Bicyclists, and Other Vulnerable Users from Motor Vehicles*, NCHRP Report 1116, Transportation Research Board, National Academy of Sciences, Washington, D.C., 2024.
- Kovar, J., Bligh, R., Cakalli, S., Schroeder, W., Curran, D., Loza, A., Kiani, M., Moran, S., Buttery, H., Khair, S., *MASH TL-3 Deflection Reduction for 31-inch Guardrail: A Guide*, NCHRP Report 1100, Transportation Research Board, National Academy of Sciences, Washington, D.C., 2024.

- Bligh, R., Boniphase, K. Cakalli, S., Sheikh, N., and Avelar, R., *Development of Clear Recovery Area Guidelines*, NCHRP Report 1097, Transportation Research Board, National Academy of Sciences, Washington, D.C., 2024.
- Briaud, J., Bligh, R., and Maddah, L., *MSE Wall Behavior during Large Truck Impact at High Speed against Barrier on Top of Wall*, Vol. 8, Issue 1, p.1-21. doi: 10.4417/IJGCH-08-01-01, 2024.
- Bligh, R. and Bastin, B., *MASH Testing of Luminaire Pole behind Single Slope Traffic Rail,* Report No. FHWA/TX-23/0-7086-R3, Texas A&M Transportation Institute, College Station, TX, November 2024.
- Bligh, R., Silvestri-Dobrovolny, C., Johnson, B., Barrett, M., Holyoke, J., Hendrickson, G., Zalani, A., and Schroeder, W., *Development of a MASH TL-4 Portable Concrete Barrier with Large Scupper,* Report No. FHWA/TX-23/0-7087-R1, Texas A&M Transportation Institute, College Station, TX, November 2024.
- Chamargore, S., Bligh, R., Silvestri-Dobrovolny, C., Dadashova, B., Perez, M., Zalani, A., Park, S., Williams, W., Lee, J., Kiani, M., *Determine Adequacy of Existing Roadside Barriers on High-Speed Roadways,* FHWA/TX-23/0-7121-R1, Texas A&M Transportation Institute, College Station, TX, August 2024.
- Schulz, N., Bligh, R., Dadashova, B., Silvestri Dobrovolny, C., and Schroeder, W., *Develop a Retrofit Design for Guard Fence System to Enhance Motorcycle Safety*, FHWA/TX-23/0-6994-R1, Texas A&M Transportation Institute, College Station, TX, August 2024.
- Cakalli, S., Schulz, N., Bligh, R., Schroeder, W., Kiani, M., *MASH Evaluation of Pedestrian Traffic Signals*, Report No. 617891-01 1-4, Texas A&M Transportation Institute, College Station, TX, July 2024.
- Bligh, R., Cakalli, S., Sheikh, N., Schroeder, W., and Kuhn, D., *Evaluation of Allowable Taper Rates of Freestanding Single-Slope Concrete Barriers,* Report No. FHWA/TX-23/0-7086-R2, Texas A&M Transportation Institute, College Station, TX, August 2023.
- Silvestri-Dobrovolny, C., Bligh, R., Kiani, M., Zalani, A., Schroeder, W., and Kuhn, D., *Evaluation of Attachments to Concrete Barrier Systems to Deter Pedestrians - Vol. 2: Crash Report*, Report No. FHWA/TX-23/0-7082-R1-Vol2, Texas A&M Transportation Institute, College Station, TX, August 2023.
- Silvestri-Dobrovolny, C., Bligh, R., Kiani, M., Zalani, A., *Evaluation of Attachments to Concrete Barrier Systems to Deter Pedestrians - Vol. 1: Technical Report*, Report No. FHWA/TX-23/0-7082-R1-Vol1, Texas A&M Transportation Institute, College Station, TX, August 2023.
- Silvestri-Dobrovolny, C., Dadashova, B., Mahmood, T., Das, S., Hungjoo, K., Bligh, R., Riexinger, L., Smith, C., Gabler, H., Hallmark, S., *Addressing Encroachment-Related Safety Issues in Work Zones: A Guide*, NCHRP Report 1055, National Academies of Science, Transportation Research Board, Washington, D.C., 2023.
- Dadashova, B., Das, S., Kwon, H., Dobrovolny, C., and Bligh, R., *Investigation of Roadway Design Methods to Decrease Likelihood of Roadway Departures for Motorcyclists*, Research Report 9-1531-R1, Texas A&M Transportation Institute, February 2023.
- Dobrovolny, C., Bligh R., Kiani, M., Hangul, A., *Investigation and MASH Full-Scale Crash Testing of the Practice of Raising Blockouts on W-Beam Rail Systems, Transportation Research Record* 2676(4), 2022, pp. 776-789.
- Dobrovolny, C., Bhutani, S., Zalani, A., Bligh, R., Hurlebaus, S., Aldahlki, H., Schroeder, W., Kuhn, D., *Development of Guidelines for Inspection, Repair, and Use of Portable Concrete Barriers - Volume 1: Technical Report*, Report No., FHWA/TX-22/0-7059-R1-Vol1, Texas A&M Transportation Institute, College Station, TX, September 2022.

- Dobrovolny, C., Zalani, A., Bligh, R., Hurlebaus, S., Aldahlki, H., Schroeder, W., Kuhn, D., *0-7059: Development of Guidelines for Inspection, Repair, and Use of Portable Concrete Barriers,* Report No. 0-7059-PSR, Texas A&M Transportation Institute, College Station, TX, 2022.
- Williams, W., Bligh, R., Menges, W., Kuhn, D., *MASH TL-4 Evaluation of the TxDOT Type C2P Bridge Rail,* Report No. FHWA/TX-17/9-1002-15-2 Rev.1, Texas A&M Transportation Institute, College Station, TX, June 2022.
- Dobrovolny, C., Balke, K., Bligh, R., Hurlebaus, S., Shi, S., Pike, A., Das, S., Charara, H., Mott, C., 0-6992 *Traffic Safety Improvements at Low Water Crossings,* Report 0-6992-PSR, Texas A&M Transportation Institute, 2022.
- N.M. Sheikh, R.P. Bligh, W.J. Schroeder, D.L. Kuhn, *Design and MASH TL-3 Evaluation of Surface Mounted Median Guardrail*, Research Report 0-7052-R1, Texas A&M Transportation Institute, April 2022.
- N.M. Sheikh, R.P. Bligh, *Evaluation of Surface Mounted Median Guardrail*, Report 0-7052-PSR, Texas A&M Transportation Institute, March 2022.
- R.P. Bligh, W.L. Menges, W.J. Schroeder, B.L. Griffith, S.A. Wegenast, D.L. Kuhn, *MASH Test 3-11 on F-Shape Portable Concrete Barrier with X-Bolt Connection*, Report No. FHWA/TX-21/0-7086-R1, Texas A&M Transportation Institute, College Station, TX, October 2021.
- R.P. Bligh, W.L. Menges, W.J. Schroeder, B.L. Griffith, S.A. Wegenast, D.L. Kuhn, *MASH Test 5-12 Evaluation of TxDOT T80SS Barrier with Soundwall*, Research Report 0-7086-R4, Texas A&M Transportation Institute, September 2021.
- R.P. Bligh, Nathan D. Schulz, W.L. Menges, W. Schroeder, Darrell L. Kuhn, *Development of Modified TxDOT Single-Post Skid-Mounted Sign Support*, Research Report 0-6968-R3, Texas A&M Transportation Institute, June 2021.
- R.P. Bligh, A. Abuodeh, S. Cakalli, J.C. Kovar, S.M. Moran, N.D. Schulz, N.M. Sheikh, C. Silvestri Dobrovolny, W.F. Williams, A. Han, S. Park, *Roadside Safety Device Analysis, Testing, and Evaluation Program*, Report 0-6968-PSR, Texas A&M Transportation Institute, June 2021.
- C. Silvestri Dobrovolny, J.C. Kovar, R.P. Bligh, B. Johnson, M. Barrett, B. Klenzendorf, G. Hendrickson, W.L. Menges, W.J. Schroeder, D.L. Kuhn, *Development and MASH TL-4 Evaluation of TxDOT Large-Scupper Median Barrier for Flood-Prone Areas*, Report No. FHWA/TX-21/0-6976-R1, Texas A&M Transportation Institute, College Station, TX, October 2021.
- C. Silvestri Dobrovolny, J.C. Kovar, R.P. Bligh, B. Johnson, M. Barrett, B. Klenzendorf, G. Hendrickson, *Development of Concrete Median Barrier for Flood-Prone Areas*, Report 0-6976-PSR, Texas A&M Transportation Institute, June 2021.
- N.M. Sheikh, R.P. Bligh, *Development of a MASH Test Level 4 Compliant Guardrail,* Report 0-7019-PSR, Texas A&M Transportation Institute, June 2021.
- N.M. Sheikh, R.P. Bligh, W.L. Menges, W.J. Schroeder, B.L. Griffith, D.L. Kuhn, *Development and Evaluation of MASH TL-4 Guardrail System*, Research Report 0-7019-R1, Texas A&M Transportation Institute, May 2021.
- S.M. Moran, R.P. Bligh, W.L. Menges, W.J. Schroeder, D.L. Kuhn, *MASH Test 4-12 of Shallow Anchorage Single Slope Traffic Rail (SSTR)*, Research Report 0-6968-R10, Texas A&M Transportation Institute, December 2020.
- N.M. Sheikh, R.P. Bligh, J.C. Kovar, S. Cakalli, W.L. Menges, G.E. Schroeder, D.L. Kuhn, *Development of Structurally Independent Foundations for 36-Inch Tall Single Slope Traffic Rail (SSTR) for MASH TL-4*, Research Report 0-6968-R7, Texas A&M Transportation Institute, October 2020.

- R.P. Bligh, B.L. Griffith, D.L. Kuhn, *Establishing Comprehensive Manual on Assessing Safety Hardware (MASH) Compliance for Roadside Safety Systems in Texas*, Report 0-6946-PSR, Texas A&M Transportation Institute, October 2020.
- C.S. Dobrovolny, R.P. Bligh, W.L. Menges, G.E. Schroeder, D.L. Kuhn, *MASH TL-3 Evaluation of TxDOT Extra-Large Mailboxes*, Research Report 0-6968-R9, Texas A&M Transportation Institute, October 2020.
- S.M. Moran, R.P. Bligh, W.L. Menges, G.E. Schroeder, D.L. Kuhn, *MASH Test 3-11 Evaluation of TxDOT W-Beam Guardrail With 7 1/2-Inch Diameter Round Wood Posts in Concrete Mow Strip*, Research Report 0-6968-R2, Texas A&M Transportation Institute, October 2020.
- N.M. Sheikh, S.M. Moran, S. Cakalli, R.P. Bligh, W.L. Menges, G.E. Schroeder, D.L. Kuhn, *Development of MASH TL-3 Transitions for Cast in Place Concrete Barriers*, Report No. FHWA/TX-19/0-6968-R8, Texas A&M Transportation Institute, College Station, TX, June 2020.
- R.P. Bligh, W.L. Menges, B.L. Griffith, G.E. Schroeder, D.L. Kuhn, *MASH Evaluation of TxDOT Roadside Safety Features - Phase III*, Research Report 0-6946-R3, Texas A&M Transportation Institute, May 2020
- C. Silvestri Dobrovolny, S. Shi, J.C. Kovar, R.P. Bligh, D.L. Kuhn, B.L. Griffith, *Development and Evaluation of Concrete Barrier Containment Options for Errant Motorcycle Riders*, Research Report 0-6968-R6, Texas A&M Transportation Institute, June 2019.
- N.M. Sheikh, R.P. Bligh, W.L. Menges, D.L. Kuhn, G.E. Schroeder, *MASH TL-4 Testing and Evaluation of Free-Standing Single Slope Concrete Barrier with Cross-Bolt Connection*, Research Report 0-6968-R5, Texas A&M Transportation Institute, June 2019.
- J.C. Kovar, R.P. Bligh, B.L. Griffith, D.L. Kuhn, G.E. Schroeder, *MASH Test 3-11 Evaluation of Modified TxDOT Round Wood Post Guardrail System,* Research Report 0-6968-R4, Texas A&M Transportation Institute, June 2019
- R.P. Bligh, W.L. Menges, B.L. Griffith, G.E. Schroeder, D.L. Kuhn, *MASH Evaluation of TxDOT Roadside Safety Features - Phase II*, Research Report 0-6946-R2, Texas A&M Transportation Institute, March 2019
- C. Silvestri Dobrovolny, S. Shi, R.P. Bligh, W.L. Menges, D.L. Kuhn, *MASH TL-3 Evaluation of the TxDOT TL-3 Low-Profile Barrier for High-Speed Applications*, Research Report 0-6968-R1, Texas A&M Transportation Institute, September 2018.
- Bligh, R., Dobrovolny, C, Abu-Odeh, A., Sheikh, N., Kovar, J., "Computer Modeling and Evaluation of Side Underride Protective Device Designs," Report No. DOT HS 812 522, National Highway Traffic Safety Administration, Washington, DC, April 2018.
- R.P. Bligh, W.L. Menges, D.L. Kuhn, *MASH Evaluation of TxDOT Roadside Safety Features - Phase I*, Research Report 0-6946-1, Texas A&M Transportation Institute, January 2018
- Abu-Odeh, Akram, and Conor A. Mitchell, Roger P. Bligh, Wanda L. Menges, Darrell L. Kuhn, *Crash Testing and Evaluation of the TxDOT Short-Span Short-Radius Guardrail System*, Research Report 9-1002-15-9, Texas A&M Transportation Institute, January 2018.
- Williams, William F., and Roger P. Bligh, Wanda L. Menges, Darrell L. Kuhn, *Crash Test and Evaluation of the TxDOT T224 Bridge Rail*, Research Report 9-1002-15-5, Texas A&M Transportation Institute, January 2018.
- Williams, William F., and Nauman M. Sheikh, Wanda L. Menges, Darrell L. Kuhn, Roger P. Bligh, *Crash Test and Evaluation of Restrained Safety-Shape Concrete Barriers on Concrete Bridge Deck*, Research Report 9-1002-15-3, Texas A&M Transportation Institute, January 2018.

- Silvestri Dobrovolny, Chiara, and Shengyi Shi, Roger P. Bligh, Wanda L. Menges, Darrell L. Kuhn, *MASH TL-3 Evaluation of the TxDOT TL-3 Low-Profile Barrier for High Speed Applications*, Research Report 0-6968-R1, Texas A&M Transportation Institute, September 2018.
- Bligh, Roger P., and Wanda L. Menges, Darrell L. Kuhn, *MASH Evaluation of TxDOT Roadside Safety Features - Phase I*, Research Report 0-6946-1, Texas A&M Transportation Institute, January 2018
- Dobrovolny, Chiara S., and Dusty R. Arrington, Roger P. Bligh, Wanda L. Menges, Darrell L. Kuhn, *MASH Evaluation of TxDOT High-Mounting-Height Temporary Work Zone Sign Support System*, Research Report 9-1002-15-8, Texas A&M Transportation Institute, February 2017.
- Williams, William F., and Roger P. Bligh, Wanda L. Menges, Darrell L. Kuhn, *MASH TL-4 Evaluation of the TxDOT Type C2P Bridge Rail*, Research Report 9-1002-15-2, Texas A&M Transportation Institute, February 2017.
- Silvestri Dobrovolny, Chiara, and Roger P. Bligh, Wanda L. Menges, *Crash Testing and Evaluation of Multiple Mailbox Supports for Use with Locking Architectural Mailboxes*, Research Report 9-1002-15-7, Texas A&M Transportation Institute, February 2017.
- Williams, William F., and Roger P. Bligh, Wanda L. Menges, *MASH Test 3-11 of the TxDOT T222 Bridge Rail,* Research Report 9-1002-12-13, Texas A&M Transportation Institute, July 2016.
- Williams, William F., and Roger P. Bligh, Wanda L. Menges, Darrell L. Kuhn, *MASH TL-3 Crash Testing and Evaluation of the TxDOT T631 Bridge Rail*, Research Report 9-1002-12-12, Texas A&M Transportation Institute, July 2016.
- Sheikh, Nauman M., and Roger P. Bligh, Wanda L. Menges, Darrell L. Kuhn, *Crash Test and Evaluation of 3-ft Mounting Height Sign Support System*, Research Report 9-1002-15-1, Texas A&M Transportation Institute, July 2016.
- Arrington, Dusty R., and Roger P. Bligh, Wanda L. Menges, Darrell L. Kuhn, *Crash Test and Evaluation of Temporary Wood Sign Support System for Large Guide Signs*, Research Report 9-1002-15-4, Texas A&M Transportation Institute, July 2016.
- Abu-Odeh, Akram, and Katherine M. McCaskey, Roger P. Bligh, Wanda L. Menges, Darrell L. Kuhn, *Short Radius MASH TL-3 Guardrail Treatment*, Research Report 0-6711-S, Texas A&M Transportation Institute, 2015.
- Abu-Odeh, Akram, and Katherine M. McCaskey, Roger P. Bligh, Wanda L. Menges, Darrell L. Kuhn, *Crash Test and MASH TL-3 Evaluation of the TxDOT Short Radius Guardrail*, Research Report 0-6711-1, Texas A&M Transportation Institute, March 2015.
- Bae, Sang-Wook, Derrick Tate, Timothy Wood, Delong Zuo, Roger P. Bligh, Wanda L. Menges, Victoria Gonzalez, David Griggs, and Quiwei Yang, *Testing of Alternative Supporting Materials for Portable Roll-Up Signs Used for Maintenance Work Zones*, Research Report 0-6639-1, Texas Tech University, April 2014.
- Williams, William F., and Roger P. Bligh, Wanda L. Menges, Darrell L. Kuhn, *Crash Test and Evaluation of The TxDOT T631 Bridge Rail*, Research Report 9-1002-12-10, Texas A&M Transportation Institute, January 2014.
- Abuodeh, Akram, and Roger P. Bligh, Melinda L. Mason, Wanda L. Menges, *Development and Evaluation of a MASH TL-3 31-Inch W-Beam Median Barrier*, Research Report 9-1002-12-8, Texas A&M Transportation Institute, January 2014.
- Silvestri Dobrovolny, Chiara, and Kierstyn M. White, Roger P. Bligh, *Synthesis of System/Vehicle Interaction Similarities /Dissimilarities with 12" and 8" Blockouts with 31" Mounting Height, Mid-Span Splices*, Report 601621, Texas A&M Transportation Institute, July 2014.

- Bligh, Roger P., and Wanda L. Menges, Darrell L. Kuhn, *Crash Test and Evaluation of Locking Architectural Mailboxes*, Research Report 9-1002-12-9, Texas A&M Transportation Institute, September 2014.
- Bligh, Roger P., and Dusty R. Arrington, Wanda L. Menges, Darrell L. Kuhn, *Skid-Mounted Support System for Temporary Guide Signs*, Research Report 0-6782-2, Texas A&M Transportation Institute, November 2014.
- Bligh, Roger P, Dusty R. Arrington, Wanda L. Menges, and Darrell L. Kuhn, *Development of Design Standards for Mounting Temporary Large Guide Signs*, Report 0-6782-S, Texas A&M Transportation Institute, 2014.
- A.Y. Abu-Odeh, R. P. Bligh, and C. Silvestri Dobrovolny, *Analysis and Full-Scale Crash Test of a High-Containment Bridge Rail, IRF Examiner: Road Safety Applications*, International Road Federation, Spring 2014, pg. 37-42.
- R. P. Bligh, D. R. Arrington, R Meza, *MASH TL-2 Guardrail-to-Bridge Rail Transition Compatible with 31-inch Guardrail*, *Journal of the Transportation Research Board, No. 2377*, Transportation Research Board of the National Academies, Washington, D.C., 2013, pp. 74-83.
- A.Y. Abu-Odeh, R. P. Bligh, M. L. Mason, and W. L. Menges, *Development and Evaluation of a MASH TL-3 31-Inch W-Beam Median Barrier,* 9-1002-12-8, Texas A&M Transportation Institute, College Station, TX. October 2013.
- R. P. Bligh, D. R. Arrington, and W. L. Menges, *Temporary Large Guide Signs*, Report FHWA/TX-13/0-6782-1, Texas A&M Transportation Institute, College Station, TX, August 2013.
- W. L. Beason, M. S. Brackin, R. P. Bligh, and W. L. Menges**,** *Development and Testing of a Non-Pinned Low-Profile End Treatment*, 9-1002-12-7, Texas A&M Transportation Institute, College Station, TX. July 2013.
- L.D. Theiss, R.P. Bligh. *Worker Safety During Operations with Mobile Attenuators.* 0-6707-1. Texas A&M Transportation Institute, College Station, TX. May 2013.
- Y. Abu-Odeh, W. Williams, R. Ferdous, M. Spencer, R. Bligh, and W. Menges, *Signs on Concrete Median Barriers*, Research Report 0-6646-1, Texas A&M Transportation Institute, College Station, TX. April 2013.
- Silvestri Dobrovolny, R.P. Bligh, W.L. Menges. *MASH Full-Scale Crash Testing of 4-ft Mounting Height 24"x30" Chevron Sign Installed on 5.5H:1V Slope Ditch*. 9-1002-12-6. Texas A&M Transportation Institute, College Station, TX. March 2013.
- M. R. Ferdous , A. Abu-Odeh , R. P. Bligh, H. L. Jones, *Placement of Traffic Barriers on Roadside and Median Slopes – Guidelines Based on Numerical Simulations*, *International Journal of Crashworthiness*, 18:2, 110-125, January 2013.
- D.R. Arrington, R.P. Bligh, W.L. Menges. *MASH Test 3-21 on a Modified TxDOT TL-3 Transition without Curb*. 9-1002-12-3. Texas A&M Transportation Institute, College Station, TX. January 2013.
- Arrington, Dusty R., and John M. Holt, Roger P. Bligh, *Concrete Roadside Barrier Anchorage Details for 5-in., Cast-in-Place Decks on Prestressed Beams*, *Transportation Research Record 2313*, Structures 2012, Journal of the Transportation Research Board, pp. 33-41, Transportation Research Board, Washington, D.C., 2012.
- N. M. Sheikh, R. P. Bligh, J. Holt, *Minimum Rail Height and Design Impact Load for Manual for Assessing Safety Hardware TL-4 Longitudinal Barriers, Transportation Research Record 2309*, Journal of the Transportation Research Board, Transportation Research Board, Washington, D.C., 2012.

- R. P. Bligh, D. R. Arrington, N. M. Sheikh, R. Meza, C. Silvestri, *Low-Cost Median Barrier Access Gate*, *Transportation Research Record 2309*, Journal of the Transportation Research Board, Transportation Research Board, Washington, D.C., 2012.
- Silvestri Dobrovolny, D.R. Arrington, R.P. Bligh, W.L. Menges. *Development and MASH Full-Scale Crash Testing of a High-Mounting Height Temporary Single Sign Support with Aluminum Sign*. 9-1002-12-5. Texas A&M Transportation Institute, College Station, TX. November 2012.
- L.D. Theiss, R.P. Bligh. *Compare Trailer-Mounted Attenuators vs Truck-Mounted Attenuators Protection for Workers*. 0-6707-S. Texas A&M Transportation Institute, College Station, TX. 2012.
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- H.E. Ross, Jr. and R.P. Bligh, *Small Sign Support Analysis: Phase III - Benefit/Cost Analysis,* Research Report 7024-3, Arizona Department of Transportation Study HPR-PL-1-31, Texas Transportation Institute, College Station, TX, Nov. 1987.

SELECTED PRESENTATIONS

- MASH Implementation Coordination, Presented at 2016 AASHTO Subcommittee on Bridges and Structures Meeting, Technical Committee T-7, Minneapolis, Minnesota, June 2016.
- MASH: What, When, and Why, Presented at 2016 Traffic Safety Conference, College Station, Texas, June 2016.
- Development of a Crashworthy Support System for Large Temporary Guide Signs, Presented at 93rd Annual Meeting of the Transportation Research Board, Washington, D.C., January 2014.
- The Future of Clear Zones, Presented at Workshop on "Strategic Directions on Roadway Departure Crashes: Supporting the Decade of Action," sponsored by TRB Committee AFB20,

Roadside Safety Design, and the AASHTO Technical Committee on Roadside Safety, New Orleans, Louisiana, July 2013.

- Performance of Barriers on Slopes, Presented at Workshop on "Strategic Directions on Roadway Departure Crashes: Supporting the Decade of Action," sponsored by TRB Committee AFB20, Roadside Safety Design, and the AASHTO Technical Committee on Roadside Safety, New Orleans, Louisiana, July 2013.
- MASH Performance of Breakaway Sign Supports, Presented at Joint Meeting of AASHTO/ARTBA/AGC Task Force 13 and Midwest States Pooled Fund Program, Lincoln, Nebraska, April, 2013.
- Research Aspects of the NTSB Barrier Recommendations, Presented at 92nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 2013.
- MASH TL-2 Guardrail-to-Bridge Rail Transition Compatible with 31-inch Guardrail, Presented at 92nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 2013.
- Roadway Departure Clearinghouse, Presented at the Roadside Safety Design (AFB20) Committee Meeting, 92nd Annual Meeting of the Transportation Research Board, Washington, D.C., January 2013.
- Overturn Crashes, Presented at Workshop on "Strategic Directions on Roadway Departure Crashes: Supporting the Decade of Action," sponsored by TRB Committee AFB20, Roadside Safety Design, and the AASHTO Technical Committee on Roadside Safety, Irvine, California, July 2012.
- Low-Cost Median Barrier Access Gate, Presented at 91st Annual Meeting of the Transportation Research Board, Washington, D.C., January 2012.
- Positive Protection at Work Sites, Presented at Roads and Maritime Services, Parramatta, New South Wales, Australia, November 2011.
- Manual for Assessing Safety Hardware (MASH) - Key Changes & Implementation, Presented at Roads and Maritime Services, Parramatta, New South Wales, Australia, November 2011.
- Terminals and Transitions – Effective Design and Use, Presented at Victoria Road Corporation (VicRoads), Melbourne, Victoria, Australia, November 2011.
- Safety at Work sites - A US Perspective, Presented at Victoria Road Corporation (VicRoads), Melbourne, Victoria, Australia, November 2011.
- Manual for Assessing Safety Hardware (MASH) - Key Changes & Implementation, Presented at Victoria Road Corporation (VicRoads), Melbourne, Victoria, Australia, November 2011.
- Manual for Assessing Safety Hardware (MASH) - Key Changes & Implementation, Presented at Department of Transport and Main Roads, Brisbane, Queensland, Australia, October 2011.
- Safety at Work sites - A US Perspective, Presented at Centre for Accident Research and Road Safety – Queensland (CARRS-Q), Brisbane, Queensland, Australia, October 2011.
- Changes in Guardrail Standards, Presented at 85th Annual Transportation Short Course, College Station, Texas, October 2011.
- Test Matrix for Evaluation of Cable Barrier Systems in Median Ditches, Presented at TRB Workshop on "Roadway Departure Crashes: Bridging the Gap Between Testing and Real World Performance," sponsored by TRB Committee AFB20, Roadside Safety Design, Rapid City, South Dakota, May 2011.
- MASH Test Level 4 Design Guidance, Presented at TRB Workshop on "Roadway Departure Crashes: Bridging the Gap Between Testing and Real World Performance," sponsored by TRB Committee AFB20, Roadside Safety Design, Rapid City, South Dakota, May 2011.

- Short-Radius Guardrail System for NCHRP Report 350 Test Level 2 Conditions, Presented at 90th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2011.
- Placement of Traffic Barriers on Roadside and Median Slopes, Presented at TRB Workshop on "Managing Risk of Roadway Departure Crashes," sponsored by TRB Committee AFB20, Roadside Safety Design, Yountville, California, May 2010.
- Clear Zone and Slope Traversability, Presented at TRB Workshop on "Managing Risk of Roadway Departure Crashes," sponsored by TRB Committee AFB20, Roadside Safety Design, Yountville, California, May 2010.
- Full-Scale Crash Test and Design Guidelines for Traffic Barriers on Top of MSE Walls, Presented at 89th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2010.
- Testing of Cable Barrier in Medians and on 4:1 Slopes, Presented at TRB Workshop on "Design, Testing, Installation & Maintenance of Traffic Barriers: How MASH and On-Going Research Will Affect You," sponsored by TRB Committee AFB20, Roadside Safety Design, San Antonio, Texas, June 2009.
- Bridge Rails and Transitions, webinar sponsored by the American Traffic Safety Services Association, May 2009
- Full-Scale Impact Testing of Four Traffic Barriers on Top of an Instrumented MSE Wall, Presented at 88th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2009.
- Barriers Placed on MSE Retaining Walls, Presented at TRB Workshop on "Recent Advances in Roadside Safety Technology," sponsored by TRB Committee AFB20, Roadside Safety Design, Jackson Hole, Wyoming, June 2008.
- Stability Analysis and Full Scale Test of a Traffic Barrier-Moment Slab System, Presented at 87th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2008.
- Updating the NCHRP Report 350 Crash Test Guidelines, Presented at 81st Annual Transportation Short Course, College Station, Texas, October 2007.
- International Web Conference on Road Safety, sponsored by Instituto de la Construccion y Gerencia, with road transportation officials from the US, Argentina, Peru, Chile, and Argentina, August 2007.
- An Increased Capacity, Strong-Post Guardrail System with Reduced Offset, Presented at 86th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2007.
- Low-Deflection Portable Concrete Barrier, Presented at 85th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2006.
- Guardrail-to-Concrete Bridge Rail Transition for Low-Speed Roadways. Presented at 84th Annual Meeting of the Transportation Research Board, Washington, D.C., January 2005.
- Vehicle Crash Conditions and Recovery Area Recommendations, Presented at TRB Workshop on the "Update to NCHRP Report 3530 and Current Safety Issues," Sponsored by TRB Committee AFB20, Roadside Safety Design, Overland Park, Kansas, July 2004.
- When Can Simulation Replace Crash Testing, Presented at Presented at TRB Workshop on the "Update to NCHRP Report 3530 and Current Safety Issues," Sponsored by TRB Committee AFB20, Roadside Safety Design, Overland Park, Kansas, July 2004.
- Design Wind Load Determination for Work Zone Traffic Control Devices, Presented at 83rd Annual Meeting of the Transportation Research Board, Washington, DC, January 2004.

- Crash Testing Traffic Control Devices, Presented at 77th Annual Transportation Short Course, College Station, Texas, October 2003.
- Vehicle Encroachment Conditions, Presented at Workshop on "Context Sensitive Utilization of Roadside Safety Features," Sponsored by TRB Committee A2A04, Roadside Safety Features, Minneapolis, Minnesota, July 2003.
- Evaluation of Roadside Safety and Anti-Ram Protection Devices, Presented at Brazos Valley Chapter of ITE, College Station, Texas, April 2003.
- Assessment of NCHRP Report 350 Test Vehicles, Presented at 81st Annual Meeting of the Transportation Research Board, Washington, DC, January 2002.
- Critical Impact Points for Transitions and Terminals, Presented at 81st Annual Meeting of the Transportation Research Board, Washington, DC, January 2002.
- Roadside Safety - Saving Lives through Science and Engineering, Invited presentation, NASA SHARP PLUS program, College Station, Texas, July 2001.
- Saving Lives through Roadside Safety Design, Invited presentation, Precollege Partnership Program, College Station, Texas, June 2001.
- The Center of Excellence Program - A University Perspective, Presented at 4th DYNA3D Analysis Workshop, Worcester, Massachusetts, May 2001.
- Roadside Safety: Past, Present, and Future, Invited Lecture, Texas Alliance for Science, Technology, and Mathematics, March 2001.
- Evaluation of Portable Concrete Barriers Using Computer Simulation, Presented at Transportation Research Board, Subcommittee A2A041 Computational Mechanics, Washington, DC, January 2001.
- "60 to 0 in 0.25 Seconds: Science Saves Lives", Keynote Speaker at 2001 Texas Junior Science and Humanities Symposium, January 2001.
- Side Impact Investigations of a Slip Base Luminaire Pole, Presented at Fourteenth Engineering Mechanics Conference, Department of Civil Engineering, The University of Texas at Austin, Austin, Texas, May 2000.
- Transitions from Guardrail to Bridge Rail that Meet Safety Performance Requirements, Presented at the 79th Annual Meeting of the Transportation Research Board, January 2000.
- NCHRP Report 350 and Its Implications to Bridge Rail Design in Texas, Presented at 1999 TxDOT Bridge Designer's Conference, Austin, Texas, February 1999.
- Crashworthiness of Roadside Hardware Across Different Vehicle Platforms, Presented at 78th Annual Meeting of the Transportation Research Board, Washington, DC, January 1999.
- Crashworthiness of Roadside Hardware Across Different Vehicle Platforms, Presented at Transportation Research Board Workshop on "Crashworthiness in the 21st Century," sponsored by the TRB Roadside Safety Features Committee (A2A04), Seattle, Washington, August 1998.
- Modeling and Simulation of the Texas T6 Bridge Rail, Presented at LS-DYNA Training Workshop, sponsored by FHWA, the George Washington University, Virginia, June 1998.
- Overview of Center of Excellence in Transportation Computational Mechanics, Presented at Texas A&M University System Board of Regents Meeting, College Station, Texas, March 1998.
- Overview of Center of Excellence in Transportation Computational Mechanics, Presented at Texas Transportation Institute Advisory Council Meeting, College Station, Texas, March 1998.
- Crash Testing and Evaluation of Work Zone Barricades, Presented at 77th Annual Meeting of the Transportation Research Board, Washington, DC, January 1998.

- Overview of NCHRP Report 350 and Its Implications to Roadside Safety, Presented at TxDOT Transportation Conference, College Station, Texas, October 1997.
- Design and Analysis of Roadside Safety Structures, Presented at Texas Department of Transportation Design Engineers Meeting, Ft. Worth, Texas, July 1997.
- Implications of NCHRP Report 350 to Existing Roadside Safety Features, Presented to Texas Department of Transportation, Austin, Texas, July 1997.
- Review of Test Matrices and Conditions, Presented at Transportation Research Board Workshop on "Future Directions in Roadside Safety," Woods Hole, Massachusetts, July 1997.
- Guardrail Issues Related to NCHRP Report 350, Presented at Texas Department of Transportation Value Engineering Study on Texas DOT Guardrail Design, Austin, Texas, April 1997.
- Use of Recycled Materials in Roadside Safety Devices, Presented at The Road to Recycling Conference and Expo, January 1997.
- NCHRP Report 350 Testing of the W-Beam Slotted Rail Terminal, Presented at 76th Annual Meeting of the Transportation Research Board, Washington, DC, January 1997.
- Safety Performance of Work Zone Traffic Control Devises, Presented at ATSSA Southwest Conference, "How to Achieve an Accident Free Work Zone", San Antonio, Texas, November 1996.
- Wyoming Road Closure Gate, Presented at 75th Annual Meeting of the Transportation Research Board, Washington, DC, January 1996.
- Impact Performance of Standard Guardrail Systems with the 2000P Test Vehicle, Presented at 74th Annual Meeting of the Transportation Research Board, Washington, DC, January 1995.
- Slotted Rail Guardrail Terminal, Presented at 74th Annual Meeting of the Transportation Research Board, Washington, DC, January 1995.

- Standardized Software for Acquisition, Analysis, and Display of Crash Test Data, Presented to Subcommittee A2A04(1) "Computer Simulation" at the 74th Annual Meeting of the Transportation Research Board, Washington, DC, January 1995.
- Tennessee Bridge Rail to Guardrail Transition Designs, presented at the 73rd Annual Transportation Research Board Meeting, Washington, D.C., Jan. 1994.
- Performance of Current Roadside Hardware for NCHRP Report 350 Vehicles, invited presentation at a Symposium on "Post-NCHRP Report 350 Issues and Research Needs" sponsored by the Transportation Research Board Roadside Safety Features Committee (A2A04), Newport, Oregon, July 1993.
- Evaluation of NDE Techniques for Detecting Grout Defects in Cable Stays, presented at the 1st ASME NDE Engineering Division Topical Conference, San Antonio, Texas, April 1992.
- Optimization of W-Beam Guardrail, presented at the 69th Annual Transportation Research Board Meeting, Washington, D.C., Jan. 1990.
- Wyoming Steel Tube-Type Bridge Rail and Box-Beam Guardrail Transition, presented at the 69th Annual Transportation Research Board Meeting, Washington, D.C., Jan. 1990.
- Discussion of New Performance Standards from the Design Perspective--NCHRP Report 230 Update, presented at the 63rd Annual Texas State Department of Highways and Public Transportation Short Course, College Station, Texas, Oct. 1989.
- Applications of Barrier VII in the Design of Flexible Barriers, presented at the 68th Annual Transportation Research Board Meeting, Washington, D.C., Jan. 1989.

- Optimization of Guardrail Design and Use, presented at 62nd Annual Texas State Department of Highways and Public Transportation Short Course, College Station, Texas, Oct. 1988.
- Guardrail/Bridge Rail Transitions, presented at 61st Annual Texas State Department of Highway and Public Transportation Short Course, College Station, Texas, Oct. 1987.