Date of Document: September 9, 2026

CURRICULUM VITAE

Tyler F. Rooks PhD, MS

Assistant Professor
Department of Neurosurgery

OFFICE ADDRESS:

5000 W National Avenue

Milwaukee, WI 53295

EDUCATION:

09/01/2005 - 05/01/2009 BS, Colorado School of Mines, Golden, CO
09/01/2009 - 08/01/2011 MS, Boise State University, Boise, ID
01/05/2019 - 07/30/2024 PhD, Medical College of Wisconsin, Milwaukee, WI

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

05/01/2010 - 08/01/2010 Oak Ridge Institute for Science and Engineering (ORISE) Fellow, Injury Biomechanics Division, U.S. Army Aeromedical Research Laboratory (USAARL), Fort Rucker, AL 36350
06/01/2011 - 09/01/2012 Oak Ridge Institute for Science and Engineering (ORISE) Fellow, Injury Biomechanics Division, U.S. Army Aeromedical Research Laboratory, Fort Rucker, AL 36350

FACULTY APPOINTMENTS:

09/01/2012 - 07/25/2025 Research Engineer, Injury Biomechanics Division, U.S. Army Aeromedical Research Laboratory, Fort Rucker, AL 36350

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

National

Rooks, T.F., Overview of Wearables for Head Impact Monitoring in the DoD and Academia. Presented to the Defense Safety Oversight Council (DSOC) - Safety and Occupational Health Committee (SOHC) 19 December 2024.
Rooks, T.F., Overview of Wearables for Head Impact Monitoring in the DoD and Academia. Presented to the TBI Advisory Council 3 October 2024.
Rooks, T.F., French Krahn, H.A., (2023) "TS Heavy Parachute Operations
Rooks, T.F., French Krahn, H.A., (2023) "TS Heavy Parachute Operations
Health Hazards Study: Update on Data Collected". Presented at the 2023 Joint Military Free Fall Working Group (JMFFWG) OCT 2023
Health Hazards Study". Presented at the 2023 Joint Military Free Fall Working Group (JMFFWG) JAN 2023

Local

Rooks, T.F, Brain and Spine Biomechanics Research: The Need for Multidisciplinary Approaches, Department of Neurosurgery Grand Rounds, Medical College of Wisconsin
Rooks, T.F., Helmet design, parachute design, and biomechanics of military skydiving, Gains in Engineering, Mathematics, and Science (GEMS), U.S. Army Aeromedical Research Laboratory (USAARL), Fort Rucker, - 06/01/2025

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Rooks, T. F., Baisden, J. L., & Yoganandan, N. (2023). Regional brain strain dependance on direction of head rotation. Accident Analysis & Prevention, 193, 107301.
2. Bartsch, A., & Rooks, T. F. (2023). Head Impacts in the Top 1% by Peak Linear Acceleration and/or Work Cause Immediate Concussion Signs and 'Check Engine'Responses in Military Service Members and Civilian Athletes. Annals of biomedical engineering, 1-14.
3. Fetchko, T. J., Hart, G. J., Aderman, M. J., Ross, J. D., Malvasi, S. R., Roach, M. H., Cameron, K.L., & Rooks, T. F. (2023). Measurement of head kinematics using instrumented mouthguards during introductory boxing courses in US Military Academy cadets. Military Medicine, 188(Supplement_6), 584-589.
4. Rooks, T. F., Chancey, V. C., Baisden, J. L., & Yoganandan, N. (2023). Strain Response of an Anatomically Accurate Nonhuman Primate Finite Element Brain Model Under Sagittal Loading. Military Medicine, 188(Supplement_6), 634-641.
5. Rooks, T. F., Chancey, V. C., Baisden, J. L., & Yoganandan, N. (2023). Regional Strain Response of an Anatomically Accurate Human Finite Element Head Model Under Frontal Versus Lateral Loading. Military Medicine, 188(Supplement_6), 420-427.
6. Rooks, T. F., Chancey, V. C., Baisden, J., & Yoganandan, N. (2022). Regional strain response of an anatomically accurate nonhuman primate finite element brain model under frontal impact. Traffic injury prevention, 1-4.
7. Fetchko, T., Boudreau, G., Roach, M., Cameron, K., & Rooks, T.F. (2022). Video verification of an instrumented mouthguard in American Collegiate Men's Rugby. In ASME International Mechanical Engineering Congress and Exposition (Vol. 86663, p. V004T05A048). American Society of Mechanical Engineers.
8. Gabler, L., Patton, D., Begonia, M., Daniel, R., Rezaei, A., Huber, C., Siegmund, G., Rooks, T.F. &Wu, L., (2022). Consensus head acceleration measurement practices (CHAMP): Laboratory validation of wearable sensor systems. Annals of Biomedical Engineering. https://doi.org/10.1007/s10439-022-03066-0.
9. Kuo, C., Patton, D., Rooks, T.F., Tierney, G., McIntosh, A., Lynall, R., Esquivel, A., Daniel, R., Kaminski, T., Mihalik, J., Dau, N., & Urban, J. (2022). On-field deployment and validation for wearable sensor systems. Annals of Biomedical Engineering. https://doi.org/10.1007/s10439-022-03001-3.
10. Rooks, T. F., Humm, J., Baisden, J. L., Chancey, V. C., & Yoganandan, N. (2021). Regional Strain Response of an Anatomically Accurate Finite Element Head Model. In ASME International Mechanical Engineering Congress and Exposition (Vol. 85598, p. V005T05A047). American Society of Mechanical Engineers.
11. Brown, B. A., Daniel, R. W., Chancey, V. C., & Rooks, T. F. (2021). Parametric Evaluation of Head Center of Gravity Acceleration Error From Rigid Body Kinematics Assumptions Used in Environmental Sensors. In ASME International Mechanical Engineering Congress and Exposition (Vol. 85598, p. V005T05A074). American Society of Mechanical Engineers.
12. Daniel, R.W., Weisenbach, C.A., McGovern, S.M., Rooks, T.F., Chancey, V.C., and Brozoski, F.T. (2021). Fracture Injury Risk of the Restrained Mandible to Anterior-Posterior Blunt Impacts. ASME. J Biomech Eng. April 2021; 143(4): 041012 https://doi.org/10.1115./1.4050122
13. Kelley, A.M., Bernhardt, K., Hass, N., Rooks, T.F., (2021). Detecting Functional Deficits Following Sub-Concussive Head Impacts: The Relationship between Head Impact Kinematics and Non-Postural Balance Performance. Brain Injury vol 35. issue 7. pp 812-820
14. Bartsch, A. J., Hedin, D., Alberts, J., Benzel, E. C., Cruickshank, J., Gray, R. S., Cameron, K., Houston, M. N., Rooks, T.F., McGinty, G., Kozlowski, E., Rowson, S., Maroon, J. C., Miele, V. J., Ashton, J. C., Siegmund, G. P., Shah, A., McCrea, M., Stemper, B. (2020). High energy side and rear American football head impacts cause obvious performance decrement on video. Annals of biomedical engineering, 48(11), 2667-2677.
15. Rooks, T. F., Novotny, B. L., McGovern, S. M., Winegar, A., Shivers, B. L., & Brozoski, F. T. (2021). Evaluation of Head and Body Kinematics Experienced During Parachute Opening Shock. Military Medicine, 186(11-12), e1149-e1156. https://doi.org/10.1093/milmed/usaa519
16. Yoganandan, N., Rooks, T.F., Chancey, V.C., (2021). Pelvic Injury Risk Curves for the Military Populations from Lateral Impact. Journal of Military Medicine 186(Supplement_1), 424-429.
17. Rooks, T. F., Dargie, A. S., & Chancey, V. C. (2019). Machine Learning Classification of Head Impact Sensor Data. In ASME International Mechanical Engineering Congress and Exposition (Vol. 59407, p. V003T04A065). American Society of Mechanical Engineers.
18. Rooks, T.F., Logsdon, K., McEntire, B. J., & Chancey, V. C. (2018). Evaluation of environmental sensors

during laboratory direct and indirect head exposures. Military Medicine, 183(suppl_1), 294-302.

19. Rooks, T.F., Chancey, V.C., Brozoski, F.T., Salzar, R.S., Pintar, F.A., Yoganandan, N., (2018). Development of Pelvis Injury Criteria for Vertical Loading. Traffic and Injury Prevention, Vol 19, issue 2
20. Begonia, M., Rooks, T.F., Pintar, F.A., Yoganandan, N., 2019. Development of a Methodology for Simulating Complex Head Impacts With the Advanced Combat Helmet. Mil Med 184, 237-244.
21. Begonia, M., Pintar, F.A., Yoganandan, N., Rooks, T.F., Chancey, V.C., (2018). Influence of flexible neck on head kinematic response during military helmet impact testing. Personal Armour Systems Symposium NTIS, Washington, DC, 2018, pp. 1-10.
22. Begonia, M.T., Schlick, M., Rooks, T.F., Pintar, F.A., and Yoganandan, N. (2017). Kinematic Response of the NOCSAE Headform and ES-2 Neck under Lateral Inertial Loading. Biomedical Sciences Instrumentation 53: 165-170, 2017
23. Begonia, M.T., Schlick, M., Rooks, T.F., Pintar, F.A., Yoganandan, N., (2017). Kinematic Response of the NOCSAE Headform and ES-2 Neck in Rigid Arm Pendulum, Inertial Loading Tests. Rocky Mountain Bioengineering Symposium, Denver, CO, March 2017
24. Weisenbach, C. A., Rooks, T.F., Bowman, T., Fralish, V., & McEntire, B. J. (2017). "Patient litter system response in a full-scale CH-46 crash test". Military Medicine, 182(3/4), 287-294.

Non-Refereed Journal Publications/Original Papers

1. French Krahn, H.A., Stewart, A.S., Barazanji, K.W., Wagner, C.E., Crowley, J.S., Chancey, V.C., Rooks, T.F., (2025) The Effects of Whole-Body Vibration on Critical Care Tasks and Possible Mitigation Strategies for En Route Care: Subject Matter Expert Review. USAARL Technical Report. USAARL-TECH-FR--2025-26
2. Gleason, A.J., Brozoski, F.T., Rooks, T.F., Johnson, B.A., Rhodes, D., McEntire, B.J., Chancey, V.C., (2025) Unmanned Aerial Systems Injury Risks in Military Applications. USAARL Technical Report. USAARL-TECH-SR--2025-20
3. Daniel, R.W., Morehouse, R., Rooks, T.F., (2024) Field Evaluation of Head Impact Sensors in Naval Special Warfare Training Environments Using Accelerometer-Based Environmental Sensors. USAARL Technical Report. USAARL-TECH-SR--2025-14
4. Brown, B.A., Daniel, R.W., Rooks, T.F., (2023). Instrumented Mouthguard Laboratory Evaluation Using Two Anthropometric Test Device Headforms. USAARL Technical Report: USAARL-TECH-FR--2024-12
5. Rooks, T.F., Kelley, A.M., Duffy, M., Chancey, V.C., (2023). Environmental Sensors in Training: Head Acceleration Dose Response. USAARL Technical Report: USAARL-TECH-FR--2024-11
6. Rooks, T.F., Novotny, B.L., Winegar, A., Chancey, V.C., (2023). Environmental Sensors in Training: Lessons Learned. USAARL Technical Report: USAARL TECH-FR--2024-05
7. Johnson, B. A., Chancey, V. C., Rhodes, D., Daniel, R. W., Rooks, T. F. (2021, Sept.). Review of Literature Investigating Head-Supported Mass and Acute Neck Injury Risk. (Report No. USAARL-TECH-SR--2021-53). Fort Rucker, AL: USAARL.
8. Rooks, T.F., (2022). (U) Evaluation of Wearable Sensor Systems Use in Military Tethered Tandem Bundle (MTTB) Parachute Operations. USAARL Technical Report: USAARL-TECH-FR-2022-23.
9. Daniel, R.W, Rooks, T.F., Gomez, J.A., Fralish, V.R., Logsdon, K.P., McGovern, S.M., Chancey, V.C., and Brozoski, F.T. (2022). Evaluation of skull fracture risk associated with helmet back-face deformation (Report No. USAARL-TECH-FR--2022-24). U.S. Army Aeromedical Research Laboratory, Fort Rucker, AL.
10. Rooks, T.F., Logsdon, K.P., Brozoski, F.T., (2020) UH-60A Fixed Forward Fire Weapon System: Blast Overpressure Characterization. USAARL Technical Report: USAARL-TECH-FR-2020-023
11. Vasquez, K.B., Robinette, A., Harrington, S.M., Brozoski, F.T., Rooks, T.F., Rhodes, D., Mazachowski, E., Lidl, G.M., McEntire, B.J., Chancey, V.C., Characterization of Vehicle Occupant Fracture Injury Pattern during Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF): 2007 - 2010. USAARL Technical Report No. 2020-09.
12. Yoganandan, N., Rooks, T.F., Humm, J., Brozoski, F.T., McEntire, B.J., Chancey, V.C., Head and Brian Injury Criteria Assessments from Helmet-FOCUS headform-ATD neck tests. NATO HFM-271 Panel Report
13. Bernhardt, K.A., Kelley, A.M., Mathews, C., Novotny, B., Rooks, T.F., Evaluation of Environmental Sensors in Training: Performance Outcomes and Symptoms during Airborne and Combatives Training. U.S. Army Aeromedical Research Laboratory (USAARL) Technical Report 2019-15
14. Logsdon, K.P., Brozoski, F.T., Rooks, T.F., Fralish, V.R., Chancey, V.C., Acceleration and Overpressure Hazard Analysis of the MH-60 Direct Action Penetrator (DAP) System, USAARL Technical

Memorandum 2017-019

15. Traynham, S., Hass, N., Kelley, A., Boudreaux, D., Ranes, B., Mathews, C., Hayes, A., Rooks, T.F., Chancey, C., Feasibility of TBI Assessment Measures in a Field Environment: A Pilot Study for the Environmental Sensors in Training (ESiT) Project. USAARL Technical Report No. 2017-08
16. Rooks, T.F., Logsdon, K.P., Kamimori, G.H., da Silva, U.B., McEntire, B.J., Chancey, V.C., Environmental Sensors in Training: Pilot Field Studies - Executive Summary. USAARL Tech Report 2015-16
17. Rooks, T.F., Logsdon, K.P., Kamimori, G.H., da Silva, U.B., McEntire, B.J., Chancey, V.C., Environmental Sensors in Training: Pilot Field Studies. USAARL Tech Report 2015-17
18. Memorandum, U.S. Army Aeromedical Research Laboratory (USAARL), 16 May 2014, subject: Environmental Sensors in Training: Laboratory Evaluation of Environmental Sensors.

Abstracts

1. French Krahn, H.A., Rooks, T.F., (2025) Parachute Opening Shock in Military Tandem Tethered Bundle Operations. 2025 Aerospace Medicine Association (AsMA) Annual Meeting
2. Logsdon, K., Daniel, R., McGovern, S., Rooks, T.F., Fralish, V., Gomez, J., Hasapes, S., Chancey, V. C., & Brozoski, F. (2024) Evaluation of skull fracture risk associated with helmet back-face deformation. [Poster presentation]. 2024 Military Health System Research Symposium (MHSRS)
3. French Krahn, H.A., Johnson, B.A., Rooks, T.F., (2024) "Parachute Health Hazard Effects: Military Tethered Tandem Bundle Operations". Presented at the 2024 Special Operations Medical Association (SOMA). May 2024.
4. Baus J., Rooks T.F., Tharion W.J., Hoyt R., French Krahn H. A., Yang J. (2023) "Inverse Kinematics Analysis Based on Parachute Jumpers' Inertial Measurement Units Data". 2023 SAFE Symposium. Virginia Beach VA. October 10-13, 2023
5. Baus J., Rooks T.F., Tharion W.J., Hoyt R., French Krahn H.A., Yang J. (2023) "Neck Generalized Force Estimated through Musculoskeletal Modeling of Parachute Opening Shock With and Without a Bundle". 2023 SAFE Symposium. Virginia Beach VA. October 10-13, 2023
6. French Krahn H.A., Johnson B.A., Rooks T. F. (2023) "Immediate Musculoskeletal Effects of Increased All-Up Weight in Military Tethered Tandem Bundle Operations". 2023 SAFE Symposium. Virginia Beach VA. October 10-13, 2023
7. Rooks T.F., French Krahn H.A., Johnson B.A., Brown B.A., Brozoski F.T. (2023) "Novel Use of Inertial Measurement Units to Capture Motion During Military Tethered Tandem Bundle Operations". 2023 SAFE Symposium. Virginia Beach VA. October 10-13, 2023
8. Rooks, T.F., Brown, B.A., Cunningham, S.M., Sullivan, C.C. , Rosvold, E.M., Piehler, T. , Chancey, V.C. , (2023). Environmental Sensors in Training Technologies at Project Convergence 2022: Demonstration of Wearable Sensors for Head Acceleration Monitoring Connected to Military Health System. [Poster presentation]. 2023 Military Health System Research Symposium.
9. Rooks, T.F., Baisden, J.L., Chancey, V.C., Yoganandan, N. (2022). Regional strain response of an anatomically accurate non-human primate finite element brain model under frontal impact. Association for the Advancement of Automotive Medicine. [Oral Presentation].
10. Rooks, T.F., Novotny, B.L., Winegar, A.J., Chancey, V.C. (2022) Use of Environmental Sensor Technologies in U.S. Army Training Environments: Lessons Learned. [Poster presentation]. 2022 Military Health System Research Symposium.
11. Rooks, T. F., Chancey, V. C., Baisden, J. L., Yoganandan, N. (2022). Strain response of an anatomically accurate non-human primate finite element brain model under Gx loading. [Poster presentation]. 2022 Military Health System Research Symposium.
12. Rooks, T.F., Chancey, V.C., Baisden, J.L., Yoganandan, N. (2022) Regional Strain Response of an Anatomically Accurate Human Finite Element Head Model under Frontal versus Lateral Loading. [Poster presentation]. 2022 Military Health System Research Symposium.
13. Fetchko, T. J., Hart, G. J., Aderman, M. J., Ross, J. D., Malvasi, S. R., Houston, M. N. , Cameron, K. L., Rooks, T. F. (2022). Measurement of Head Kinematics Using Instrumented Mouthguards during Introductory Boxing Courses in US Military Academy Cadets. [Poster presentation]. 2022 Military Health System Research Symposium
14. Rooks, T.F., Baisden, J.L., Yoganandan, N. (2022). Regional Maximum Principal Strain Response of An Anatomically Accurate Finite Element Human Brain Model. 2022 Summer Biomechanics, Bioengineering and Biotransport (SB3C) Conference
15. Rooks, T.F., Baisden, J.L., Yoganandan, N. (2022). Maximum Principal Strain Response of An Anatomically Accurate Finite Element Human Brain Model. 2022 World Congress on Biomechanics

16. Rooks, T.F., Baisden, J.L., Yoganandan, N., (2022). Brain Regional Strain Response in an Anatomically Accurate Finite Element Head Model. 2022 American Association of Neurological Surgeons (AANS) - Abstract accepted as poster
17. Rooks, T.F., (2021) "USAARL Parachute Operations Research: Past, Present, and Future". Presented at the 2021 Joint Military Free Fall Working Group (JMFFWG) APR 2021
18. Rooks, T.F., Humm, J., Baisden, J.L., Chancey, V.C., Yoganandan, N. (2021). Regional strain response of an anatomically accurate finite element head model [Oral Presentation]. The International Mechanical Engineering Congress and Exposition 2021, Virtual. DOI: 10.1115/IMECE2021-67500.
19. Rooks, T.F., Daniel, R.W., Logsdon, K.P., Brozowski, F.T., Chancey, V.C., McEntire, B.J. (2021). On helmet testing standards: Considerations for linear versus rotational metrics. [Oral Presentation]. 59th Annual SAFE Symposium, Mobile, AL.
20. Rooks, T.F., Humm, J., Biasden, J.L., Yoganandan, N., (2021). Time Course of the Cumulative Strain Damage Measure for Frontal and Lateral Impacts. Presented at the 2021 Summer Biotransport, Biomechanics, and Bioengineering Conference (SB3C)
21. Rooks, T.F., Humm, J., Baisden, J.L., Yoganandan, N., (2021). Development of an Anatomically Accurate Non-Human Primate Finite Element Head Model. Poster Presented at the 2021 Summer Biotransport, Biomechanics, and Bioengineering Conference (SB3C)
22. Rooks, T.F., Humm, J., Khandelwal, P., Porwal, V., Baisden, J.L., Yoganandan, N., (2020) Development of a Generalized Anatomically Accurate Finite Element Head Model for Military Applications Submitted for 2020 Biomedical Engineering Society (BMES).
23. Morehouse, R.L., Daniel, R.W., Massow, T., Duckworth, J., Rooks, T.F., (2020) Field Evaluation of Head Impact Sensors during High-Speed Boat Operations. Submitted for 2020 Military Health System Research Symposium (Accepted - Conference cancelled due to COVID)
24. Yoganandan, N., Humm, J., Meyer, M., Pintar, F.A., Rooks, T.F., Brozoski, F.T., McEntire, B.J., Chancey, V.C., (2019). Helmeted Head-Neck Kinematics with Localized Impacts and Implications for Brain Injury Metrics: a Military Application. Presented at the 2019 Summer Biotransport, Biomechanics, and Bioengineering Conference (SB3C)
25. Rooks, T.F., Dargie, A.S., Chancey, V.C., (2019) Machine Learning Classification of Head Impact Sensor Data, Presented at the 2019 International Mechanical Engineering Congress and Expo
26. Rooks, T.F., Brozoski, F.T., Novotny, B., Winegar, A., Chancey, V.C., Yoganandan, N., (2019) Comparison of Head Impact Kinematics Collected from the Field- versus Laboratory- Generated Exposures. Presented at the 2019 Military Health System Research Symposium
27. Yoganandan, N., Rooks, T.F., Chancey, V.C., (2019) Pelvic Injury Risk Curves for the Military Populations from Lateral Impact. Presented at the 2019 Military Health System Research Symposium
28. Daniel, R.W., Weisenbach, C.A., Rooks, T.F., Dargie, A.S., Chancey, V.C., Brozoski, F.T.,(2019) Injury Risk of the Restrained Mandible. Poster presented at the 2019 American Society of Biomechanics (ASB) Conference.
29. Novotny, B.L., Winegar, A.J., Shivers, B.L., Rooks, T.F., (2019) Cervical Spine Range of Motion in Military Parachutists Compared to a Normal Population. 2019 American Society of Biomechanics
30. Winegar, A.J., Novotny, B.L., McGovern, S., Shivers, B.L., Brozoski, F.T., Chancey, V.C., Rooks, T.F., (2019) Acceleration of the Head and Body during Parachute Opening Shock in Experienced Freefall Parachutists, 2019 American Society of Biomechanics
31. Rooks, T.F., Kelley, A.M, Novotny, B., Winegar, A., Bernhardt, K., Chancey, V.C., (2018) Evaluation of Environmental Sensors in Basic Airborne Training Part 1: Head Impact Kinematics, and Sensor Performance Abstract submitted for 2018 MHSRS (presentation)
32. Kelley, A.M., Rooks, T.F., Bernhardt, K., Matthews, C., (2018) Evaluation of Environmental Sensors in Basic Airborne Training Part 2: Cumulative Head Impacts, Head Impact Kinematics, and Performance, Abstract submitted for 2018 MHSRS (presentation)
33. Begonia, M., Rooks, T.F., Humm, J., Shah, A., Pintar, F.A., Yoganandan, N., (2018) Investigation of Factors that Affect Reference Sensor Kinematic Measurements during Laboratory Blunt Impact Testing of the Advanced Combat Helmet (ACH) Abstract submitted for 2018 MHSRS (poster)
34. Begonia, M., Rooks, T.F., Pintar, F.A., Yoganandan, N., (2017) Development of a Methodology for Simulating Complex Head Impacts with the Advanced Combat Helmet (ACH). Presented at the Military Health System Research Symposium (MHSRS). August 29, 2017
35. Rooks, T.F., Sedberry, D.K., Harrand, V., Przekwas, A., Chancey, V.C., (2017) Computational and Experimental Human Head Phantom (HHP) for Blast Injury Testing. Poster presented at the Military Health System Research Symposium (MHSRS). August 29, 2017

36. Rooks, T.F., Kelley, A., Erickson, B., Mathews, C., Chancey, V.C., (2017) Evaluation of Environmental Sensors in Military Training Environments: Preliminary Relationships Between Exposure and Outcome. Poster presented at the 35th Annual National Neurotrauma Symposium. 9 July to 12 July 2017.
37. Rooks, T.F., Chancey, V.C., Carr, W., Shoge, R., Hinds, S., (2017) Use of Environmental Sensor Technologies in U.S. Army Training Environments: Lessons Learned. Presented at the Workshop for Environmental Sensor Use for Quantifying Neural Exposure to Inertial and Blast Forces meeting at the 35th Annual National Neurotrauma Symposium. 08 July 2017
38. Estep, P.N., Madison, A.M., Weisenbach, C.A., Holderfield, M.R., Shivers, B.L., Rooks, T.F., Chancey, V.C. (2017) Comparative Stability Assessment of an Experimental Helmet System. Presented at Auburn University Tactical Athlete Human Factors Summit 2017. Auburn, AL. July 27-28, 2017.
39. Madison, A.M., Weisenbach, C.A., Shivers, B.L., Rooks, T.F., Fralish, V.R., Dorman, D., Bumgardner, B.A., Chancey, V.C. (2017) Evaluation of Military Tactical Ground Vehicle Dynamic Exposure Ride Signatures via Risk Assessment Classification. Presented at Auburn University Tactical Athlete Human Factors Summit 2017. Auburn, AL. July 28-29, 2017.
40. Rooks, T.F., Logsdon, K., McEntire, B.J., Chancey, V.C., (2017) Application of Environmental Sensors to a Military Combatives Training Environment. Poster presented at the 2017 American College of Sports Medicine (ACSM) Conference 31 May to 4 June 2017.
41. Rooks, T.F., Logsdon, K.P., McEntire, B.J., Chancey, V.C., (2016) Evaluation of Environmental Sensors during Laboratory Blunt and Non-Contact Head Exposures. Military Health Science Research Symposium, Kissimmee, FL, August 2016 (Poster)
42. Rooks, T.F., McEntire, B.J., Chancey, V.C., (2016) Environmental Sensors in Training: Sensitivity and Specificity Analysis of Multiple Environmental Sensors in Combatives and Airborne Training. Military Health Science Research Symposium, Kissimmee, FL, August 2016 (Poster)
43. Yang, C., Dargie, A., Linden, C., Lander, R., DiFato, T.L., Rooks, T.F., McEntire, B.J., Chancey, V.C., (2016) Evaluation of the Suitability of a Wearable Head Impact Sensor in Multiple Military Training Environments. Military Health Science Research Symposium, Kissimmee, FL, August 2016 (Poster)
44. Weisenbach CA, Bowman T, Rooks T.F., Fralish V, Chancey VC, McEntire BJ, (2016) Considerations for the Development of a Dynamic Performance Standard for Patient Litter Systems Military Health Science Research Symposium, Kissimmee, FL, August 2016
45. Logsdon, K.P., Weisenbach, C.A., Rooks, T.F., Salzar, R.S., Brozoski, F.T., Chancey, V.C., (2016) Preliminary investigation of human skull response to localized high-rate blunt impacts representative of helmet back-face deformation. Military Health Science Research Symposium, Kissimmee, FL, August 2016
46. Rooks, T.F., Logsdon, K.P., McEntire, B.J., Chancey, V.C., (2016) A Research Methodology for Evaluating the Event Detection Sensitivity of Environmental Sensors Through Video Correlation. Presented at the American College of Sports Medicine 2016 Annual Meeting. 31 May, 2016 to 4 June, 2016.
47. Carr, W., Rooks, T.F., Logsdon, K.P., Kamimori, G.H., Olaghere da Silva, U.B., McEntire, B.J., Chancey, V.C., (2015) Environmental Sensors in Training: Pilot Field Studies and Way Forward. Presented at the International State-of-the-Science Meeting on Does Repeated Blast-Related Trauma Contribute to the Development of Chronic Traumatic Encephalopathy (CTE). 4-6 November, 2015
48. McEntire B.J., Weisenbach C.A., Bowman T., Fralish V., Rooks T.F., (2015) Restrained Patient Response in a Full Scale CH-46 Crash Test, Military Health Science Research Symposium, Ft. Lauderdale, FL, August 2015
49. McEntire B.J., Weisenbach C.A., Bowman T., Fralish V., Rooks T.F., (2015) Patient Litter Response In A Full Scale CH-46 Crash Test, The 86th Aerospace Medical Association Annual Meeting, Lake Buena Vista, FL, May 2015
50. Rooks, T.F., McEntire, B.J., Chancey, C., (2014) Considerations for Acceleration-based Environmental Sensors in Military Environments. Presented at the International State-of-the-Science Meeting on the Biomedical Basis for Mild Traumatic Brain Injury (mTBI) Environmental Sensor Threshold Values. 4-6 November, 2014