

Welcome back to NATC

NATC is fortunate to be able to host our recurring Vehicle Technology Rodeo (Rodeo), which will occur at our facility on Feb. 6, 2019 after the NDIA Tactical Wheeled Vehicle (TWV) Conference. The Rodeo is an operational vehicle demonstration that allows Government participants to observe a variety of wheeled vehicle systems in a mission profile environment. The demonstrations identify both current strengths and potential challenges facing the tactical and combat wheeled vehicle community.

Generally all of the demonstrations are finalized by late October/early November taking into consideration interests that may develop as a result of the Modern Day Marine and AUSA events.

Historic demonstrations have included hybrid electric and robotic vehicles, live fire and loss of control events which match conditions experienced in the field. All of the demos at NATC will be dynamic, allowing attendees to fully engage in all of the demonstrations through a scheduled rotation.

Demonstrator Information

If you are identified to participate in the 2019 Vehicle Technology Rodeo, please follow the steps below:

- Contact NATC to discuss goals & solutions and determine your test area requirements, complexity of demonstration, type of vehicle, etc.
- Provide support information for the solution. NATC packages this information for all participants including a DVD of the demonstration events. This information is made available to allow the participants to recall demonstration highlights and to continue discussions after events.
- Develop the demonstration in a repeatable format as each demonstration is repeated throughout the day to ensure that every participant has the opportunity, in a small group, to view and actively participate in the event, drive the vehicle, etc.

Early discussions with NATC are strongly encouraged. Only Government representatives and special invitees will attend demonstrations. This will allow each demonstrator to fully discuss their potential solutions.

NATC Vehicle Technology Rodeo

For 2019, the Rodeo will focus on mobility of both new concept and existing wheeled tactical and combat platforms, particularly the challenges identified in Eastern Europe and Southeast Asia for year-round operation. Improving mobility through electrification, fuel economy prediction and optimal travel paths will be highlighted. Demonstrations of new concept ultra-light vehicle platforms through heavy tactical transport systems along with wheeled and combat systems will be conducted. With the arrival of new technologies that support autonomy and the ability to remotely identify targets within the battle space, live fire events demonstrating this technology are planned.

Commercial industry trends and their potential to enhance military capabilities will be discussed. Experts will be available to showcase improvements in mobility, tire development, life cycle cost, vehicle dynamics modeling, ballistic materials and lethality, etc. Expect long-term technology, logistics and performance objectives to be discussed.

Representatives from the Army, Marine Corps, Office of Naval Research, Department of Homeland Security, Special Forces and other Government agencies are scheduled to attend.

We welcome any additional inquiries from autonomous vehicle technologies providers and off-road mobility heavy transportation systems for purposes of demonstration.

History of Rodeo

For more than 35 years, up until 2013, NATC conducted a Rodeo at our proving ground in Nevada. The event started with 20 engineers and operators getting together after the ADPA conference to discuss common interests about ground vehicles, particularly in the areas of mobility and performance as defined by current and future operational needs. The TWV conference was one of the few events on the West Coast and it helped to ensure involvement of the West Coast commercial truck manufacturers along with the unique technologies under development from non-traditional sources.

As technology moved forward, the Rodeo events began to include more vehicles and a broader range of events supported by several hundred technology provider personnel over two days. Demonstrations ranged from ultra-light concepts developed through the Fort Lewis skunk works to HET transporters, live fire to loss of control events resulting in vehicle rollovers.

NATC Rodeo Demonstrations

NATC thanks the organizations that have supported prior years' post-NDIA TWV demonstrations. Examples of demonstrations include:



Frequently Asked Questions

What is the NATC Vehicle Technology Rodeo?

The Rodeo is an active, hands-on, demonstration of vehicle technologies conducted at the NATC proving ground facilities near Carson City, Nevada. Modified or new design vehicle systems or components are demonstrated against appropriate objectives and compared directly with currently fielded systems where possible.

The demonstrations will address vehicle systems and technologies applicable to ultra-light through heavy transport fleet requirements. Example abilities include demonstrations of improvements for mobility, electrification, autonomy, survivability, sustainability, deployability, versatility, lethality, agility, and safety.

What is the weather like in February?

The temperatures may be in the low to mid 20's in the early morning and can warm up to the 40's - 50's in the afternoon. Precipitation, including rain or snow, is possible. Layered clothing is suggested.

What is the dress code?

NATC requests that civilian attire be appropriate for a field demonstration. Please wear long pants and appropriate shoes for walking on gravel or rocky surfaces.

Where should I stay?

Hampton Inn & Suites, Carson City, NV
Phone: (775) 885-8800
Website: www.hamptoninn.hilton.com
Reference NATC rate

Courtyard by Marriott, Carson City, NV
Phone: (775) 887-9900
<https://www.marriott.com>
Reference NATC/Hodges Transportation rate

Peppermill Resort Spa Casino, Reno, NV
Phone: (775) 826-2121
Website: <https://www.peppermillreno.com>
Reference NATC2019 rate

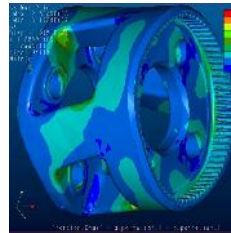
Grand Sierra Resort, Reno, NV
Phone: (775) 789-2000
Website: <https://www.grandsierraresort.com>
Reference NATC rate

About NATC

Founded in 1957, NATC is a family owned, independent engineering, test, evaluation, and design facility offering vehicle development and certification to worldwide user requirements. In our over 60 years of service to the commercial and defense industries, NATC has performed engineering and test programs against validated military and commercial duty cycles and has advanced the state of the art in tactical, combat and autonomous vehicle systems. We have conducted tire, vehicle and mission profile analysis in Eastern Europe, Iraq and Southeast Asia in support of current operations.

NATC delivers unique solutions to unique challenges. Along with worldwide duty cycles, data acquisition, and advanced engineering analysis, we provide complete prototype fabrication capabilities for one-stop solutions from design to product verification. Our engineers design test programs to system requirements through innovation, responsiveness and technical excellence.

NATC provides complete CAD, 3-D scanning and reverse engineering services. Verification of as-built components to theoretical 3-D CAD models, along with analysis of test articles, and digitized 3-D record of an item are offered. We provide one-stop solutions in the creation of detailed flexible body models, which are used to support Finite Element Analysis (FEA) and 3-D Multibody Dynamic Simulation.



NATC has the on-site capability to conduct a full range of vehicle tests. Preceded by the MPCTD, the CTVTD, LVSRTD and MCATTD (MTVRTD), the FMTVTD and M870TD continues NATC's legacy of development and fabrication of advanced tech demonstrator vehicles for the DoD.



NATC develops, integrates and evaluates advanced survivability and lethality technologies. Our experience with blast mitigation, active protection technology, armor enhancement, and weapon system development is applied to help provide sustainable, cost-effective solutions.



2019 Vehicle Technology Rodeo

February 6, 2019



NEVADA AUTOMOTIVE TEST
CENTER

Future Technologies: Ultra-light through Heavy Transport Systems

POINTS OF CONTACT:

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