

JNLWP Update to the Joint Service Small Arms Symposium



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Service Requirements

1. Stop / Disable / Impede Vehicles / Vessels
2. Crowd Dispersal / Temporarily Incapacitate Individuals
- On Land or In the Water @ 300 Meters
3. Clear Facilities With and Without Entering
4. Deny Area / Deny Access
5. Determine Intent





Recommendations

Focus on the Payload, Not the Launching Platform

Range Similar to Small Arms Lethal Ammunition

Fire From Existing Platforms

Increasing Focus on MOUT Operations / Requirement's

Service Desires for "Scaleable" Weapons

Increase NLW/C Education / Training

- Get NLW/C Into Senior Level PME

 - Officer and NCO Curriculums

- Include in Escalation of Force (EoF) Training / Orders

- More MTT's for Deploying Forces



JNLWP Small Arms Interface



M79, M203 & XM320



Airburst NL Munitions (USA)



MK19 NL Muniton (USA)



Venom



66mm VL NLG's

Mission Payload Module (USMC)



Washable Paint



Permanent Paint



CS-type 1

FN-303 Projectile Launcher (USA)



Joint NL Warning Munitions (USN)



X26 Taser ® (USA)



Joint Integration Program (JIP)

Description:

A Forum established to Coordinate a Comprehensive Program that Maintains State-of-the-Art NLCS for each Service through Product Demonstrations, Sharing Lessons Learned and Evaluating COTS Products for Potential Inclusion into Service NLCSs.

Accomplishments since the Last JCIG Meeting:

- ❖ Last Semi-Annual JIP Meeting @ Ft. Irwin, CA (Jan 07)
- ❖ Next Meeting – 26-27 Sep @ NSWC Crane, IN
- ❖ AFOTEC Taser / OC Spray Evaluation Report is Complete

FY07 Projects:

- ❖ Evaluate Re-usable 40mm Training Rounds (USA)
- ❖ Evaluate Portable Entanglement Device (USCG)
- ❖ Launch cup w/ Adapters for two Shotguns and User Evaluation (USAF)

Future Activities:

- ❖ Finalize Charter & MOA (JCIG Signatures Required)
- ❖ Dates for Next Semi-Annual Meeting (June-Aug 2007 @ NSWC Crane, IN)

JNLWD Lead, USMC, USA, USN, USCG, USAF Voters and SOCOM Interest

Funding – FY07 - \$800K, FY08-FY13 - \$800K / Year (Proposed)

Industry Contact – **Doug Esposito, American Systems**

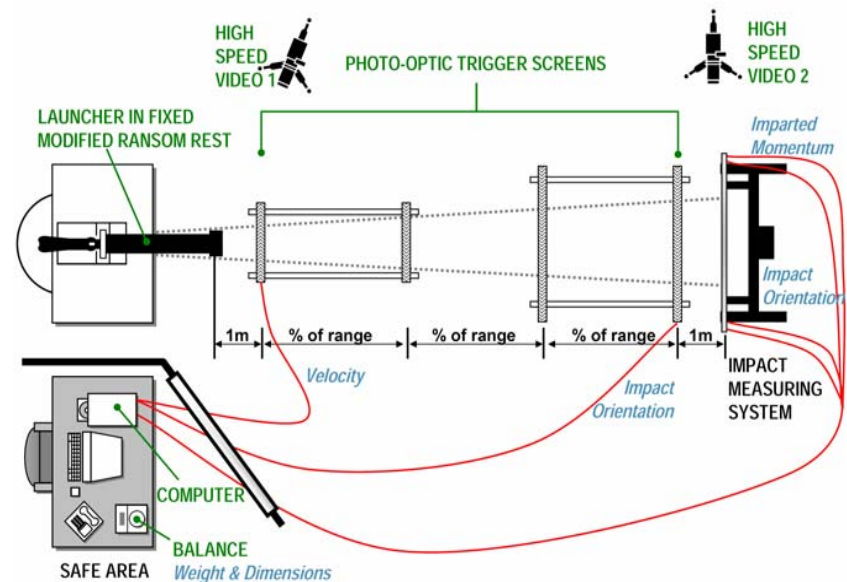
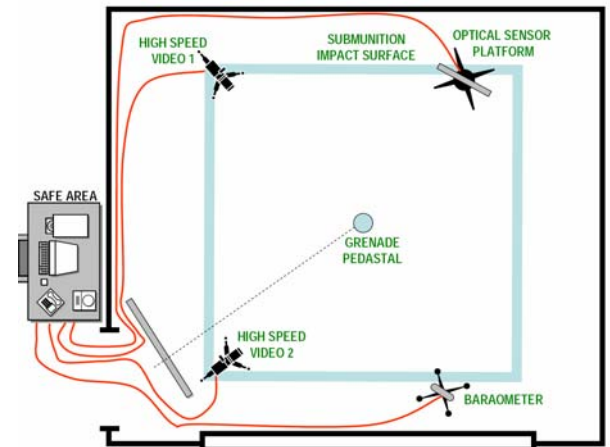
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NL Munitions Characterization

Market Survey / Request For Information
Acquire Statistically Significant Quantities
Munitions / Grenade Characterization
Data Reduction
ATBM Run
Report Development
Industry Feedback

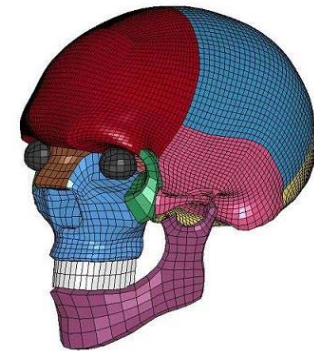
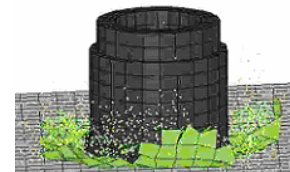
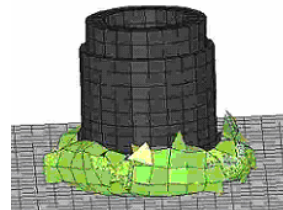
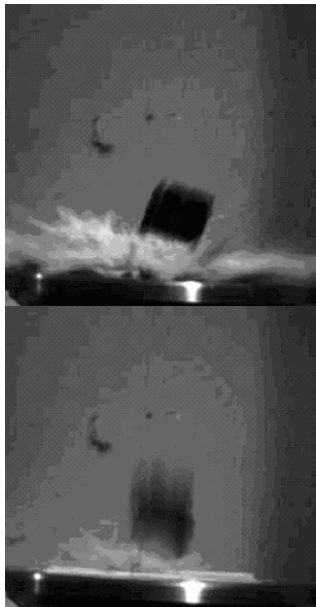
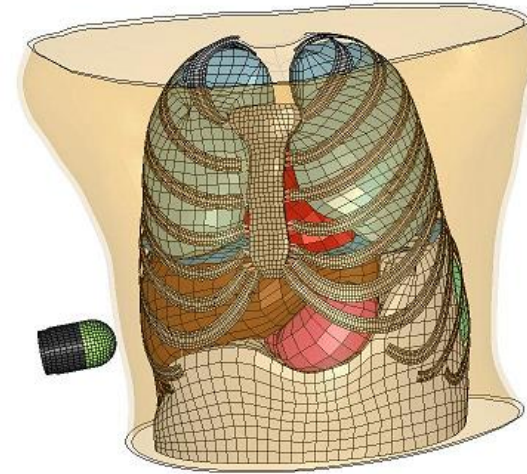
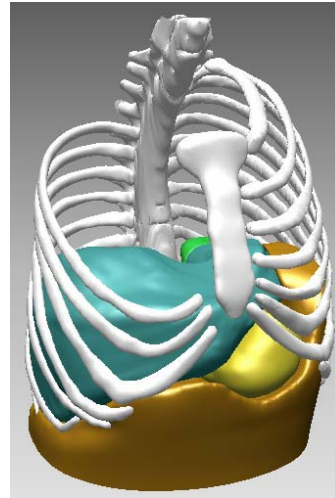


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Advanced Total Body Model (ATBM)

- ATBM is a JNLWP sponsored finite element based blunt trauma injury prediction model
- Biomechanically based, applicable for NLW impacts and validated against animal and cadaveric data
- Predicts a variety of injuries for the head, neck, thorax, abdomen, skin and extremities
- Includes design optimization and probability of hit modules
- Established projectile characterization process including static and dynamic loading to develop projectile FE model



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JNLWP Education Opportunities

- **EDUCATION**
 - **Pennsylvania State University on-line course: NON-LETHAL WEAPONS: POLICIES, PROCEDURES AND TECHNOLOGIES CERTIFICATE**
 - www.fayette.psu.edu/ccps – application form available online
 - **JNLWD Point of Contact – LCDR (USN) Cabot Aycock, cabot.aycock@usmc.mil**
- **WEBSITE – <https://www.jnlwp.com>**
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