TARDEC OVERVIEW

Tank Automotive Research, Development and Engineering Center

APTAC Spring Conference – Detroit

27 March, 2007

Peter DiSante, CRADA Manager

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

March 2007

Distribution Statement A. Approved for Public Release.
Distribution is unlimited.

Report Documentation Page

Form Approved
OMB No. 0704-0188

1. REPORT DATE **27 MAR 2007**	2. REPORT TYPE **N/A**	3. DATES COVERED **-**
4. TITLE AND SUBTITLE **TARDEC Overview**		5a. CONTRACT NUMBER
		5b. GRANT NUMBER
		5c. PROGRAM ELEMENT NUMBER
6. AUTHOR(S) **DiSante, Peter**		5d. PROJECT NUMBER
		5e. TASK NUMBER
		5f. WORK UNIT NUMBER
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) **US ARMY TACOM 6501 E 11 Mile Road Warren, MI 48397-5000**		8. PERFORMING ORGANIZATION REPORT NUMBER **17010**
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)		10. SPONSOR/MONITOR'S ACRONYM(S) **TACOM TARDEC**
		11. SPONSOR/MONITOR'S REPORT NUMBER(S) **17010**

12. DISTRIBUTION/AVAILABILITY STATEMENT
Approved for public release, distribution unlimited

13. SUPPLEMENTARY NOTES
Presented at APTAC Spring Conference, Detroit MI, 27 MAR 2007, The original document contains color images.

14. ABSTRACT

15. SUBJECT TERMS

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT **unclassified**	b. ABSTRACT **unclassified**	c. THIS PAGE **unclassified**	**SAR**	**12**	

Standard Form 298 (Rev. 8-98)
Prescribed by ANSI Std Z39-18

MISSION AND VISION

MISSION: **TARDEC provides full service life cycle engineering support to the TACOM LCMC, PEO GCS, PEO CS&CSS, and PM FCS to develop and integrate the right technology solutions to improve the effectiveness of the current force and realize the superior capability of the future force to facilitate Army transformation.**

VISION: ***TARDEC is the first choice of technology and engineering expertise for today’s and tomorrow’s ground vehicle systems and support equipment.***

TARDEC EXECUTIVE TEAM

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

Dr. Paul Rogers
Acting Executive Director
Research

Dr. Grace M. Bochenek
Director

Executive Director
Engineering

OPEN

Mr. Thom Mathes
Executive Director
Product Development

Mr. Paul Skalny
Director
NAC

Mr. Timothy F. Tarczynski
Executive Director
Operations

COL Bryan McVeigh
Military Deputy

STATE OF THE ART LABS

SUPERIOR **TECHNOLOGY** FOR A SUPERIOR **ARMY**

- ADVANCED COLLABORATIVE ENVIRONMENTS
- ADVANCED CONCEPTS LAB
- ADVANCED MATERIALS & MANUFACTURING CENTER
- BRIDGING
- PHYSICAL PROTOTYPING
- ROBOTICS
- CREW STATION & EMBEDDED SIMULATION
- PROPULSION
- FUELS & LUBRICANTS
- TRACK & SUSPENSION
- WATER
- LASER PROTECTION
- ELECTRONICS ARCHITECTURE
- NEXT GENERATION SOFTWARE

What We Do

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

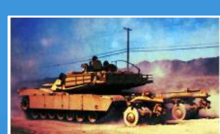
TARDEC Product Lines

TARDEC is responsible for engineering support to more than 2,800 Army systems and many of the Army's and DoD's top joint warfighter development programs:

- Combat and Tactical Vehicles
- Logistics Equipment
- Water Generation and Purification

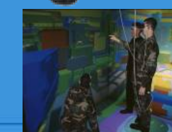
- Fuels and Lubricants
- Military Bridging

- Fuel and Water Storage, Distribution and Quality Surveillance Equipment
- Countermine Equipment



TARDEC's Technology Thrusts

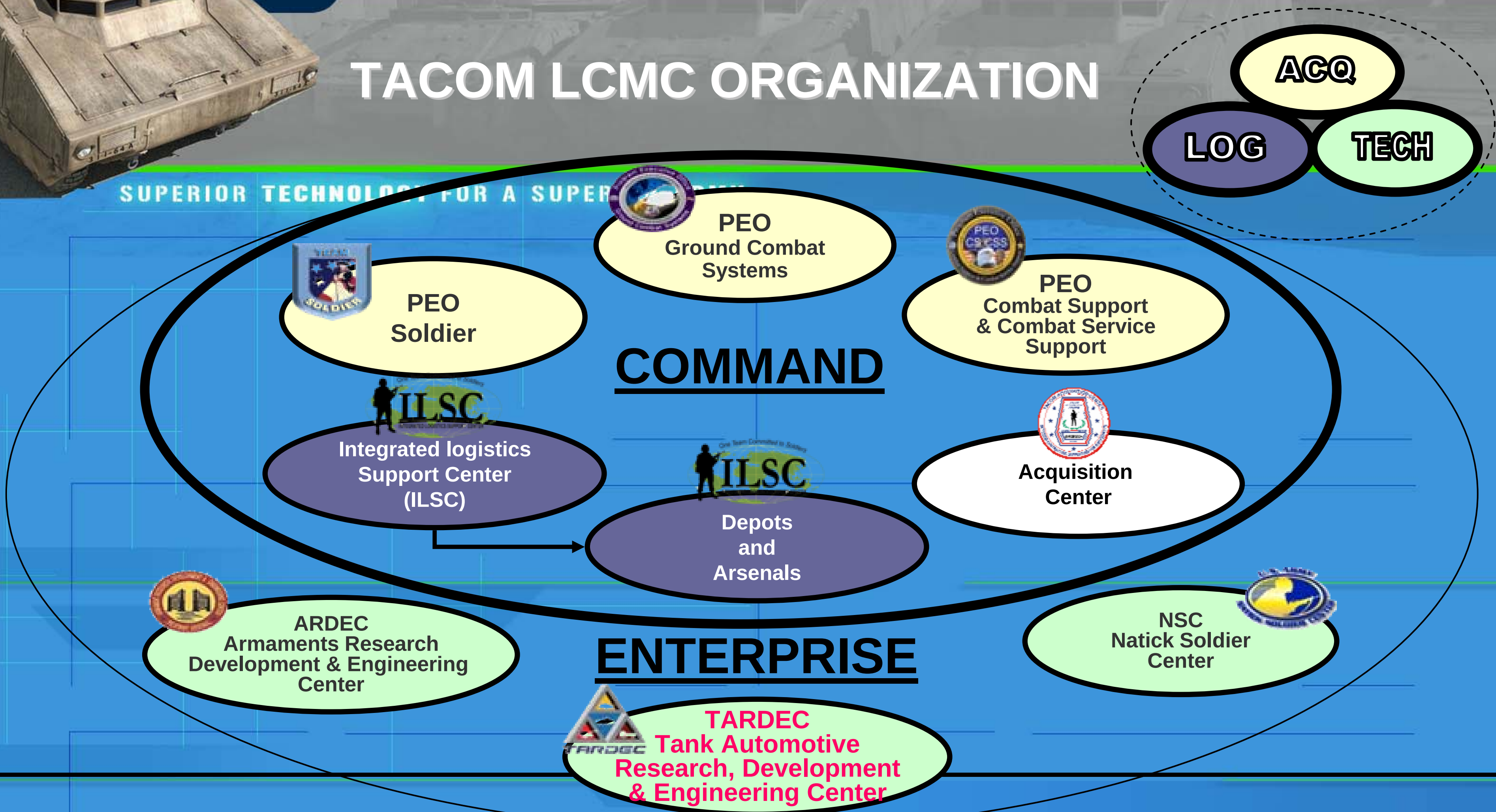
- Vehicle Survivability Systems
- Water Generation and Purification
- Unmanned Vehicle Developments
- Advanced Vehicle Concepts
- Fuel and Lubricant Research
- Crew Station Integration and Automation
- Software/Vetronics
- Next Generation Software
- Hybrid-Electric Power
- Propulsion
- Fuel Cells
- Collaborative Environments
- Physical Prototyping
- Advanced Materials
- Analytical and Physical Simulation
- High Performance Computing



PARTNERSHIP APPROACH
CENTERS OF EXCELLENCE

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

TACOM LCMC ORGANIZATION



The TACOM LCMC integrates Army Acquisition, Logistics, and Technology (ALT) responsibilities, authorities, and processes to provide the best possible support to warfighters and one voice to the customer.

NAC

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

National Automotive Center

APU Test platform

Hybrid Hydraulic FMTV

The primary mission of the National Automotive Center (NAC) is to serve as a catalyst linking industry, academia, and government in the development and exchange of automotive technologies that will benefit all sectors.

Hydrogenics

Methanol APU

DUAL NEEDS FOCUS

SUPERIOR **TECHNOLOGY** FOR A SUPERIOR **ARMY**

SBIR Program

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

Small Business Innovation Research (SBIR) Program

<u>Army SBIR Program – 07.2 PHASE I Time Table</u>

Topic Generation	SEP 2006 - APR 2007
Topic Pre-release on Web*	12 APR 2007
Solicitation Opens	14 MAY 2007
Solicitation Closes	13 JUL 2007
Proposal Evaluation	JUL - AUG 2007
Phase I Selections	14 AUG 2007
Negotiate Contracts	AUG - OCT 2007

*www.acq.osd.mil/osbp/sbir/

The goal of the Army SBIR program is to tap into the innovation and creativity of small businesses to help meet the Army's R&D objectives, and to develop technologies, products and software that can be commercialized through sales in the private sector or to the government.

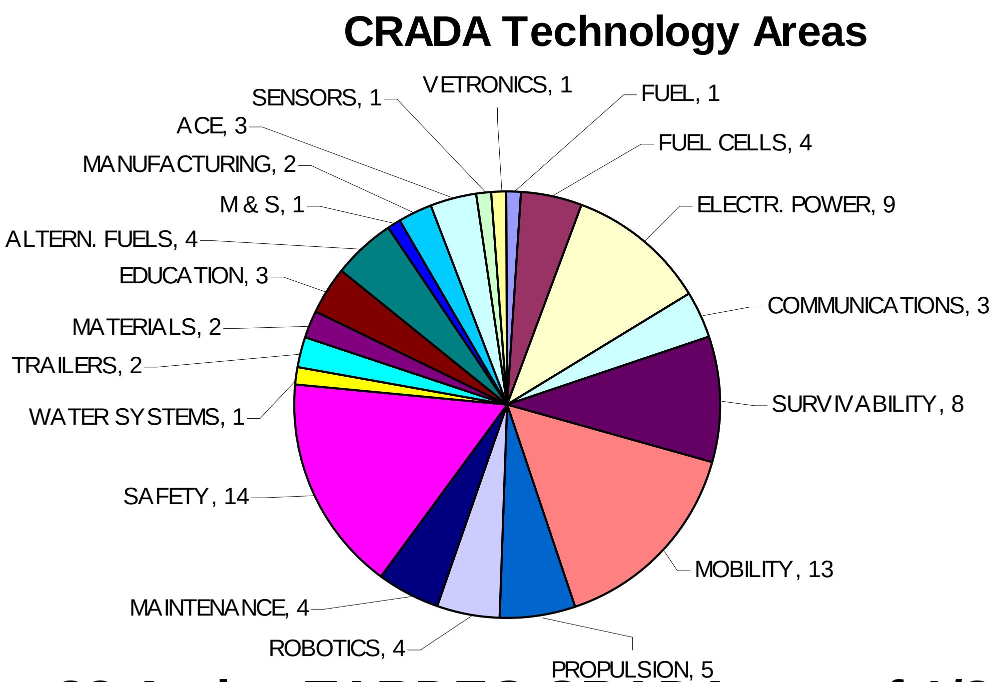
TARDEC/PEO will have up to 24 topics posted

CRADA • SBIR US ARMY TARDEC NAC DUAL USE

CRADA Program

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

Cooperative Research And Development Agreement (CRADA) Program



82 Active TARDEC CRADAs as of 1/8/07

CRADAs are established between Federal Laboratories and commercial, academic, or non-profit partners to facilitate technology transfer between the parties for mutual benefit.

SBIR / CRADA / Outreach Points of Contact

TARDEC point of contact for CRADA:

Pete DiSante

Phone: (586) 574-8958

E-Mail: disantep@tacom.army.mil

TARDEC point of contact for SBIR:

Mr. Jim Mainero

Phone: (586) 574-8646

E-Mail: maineroj@tacom.army.mil

Mechanisms & Partnerships Team:

E-Mail: tardec.nac.outreach@tacom.army.mil