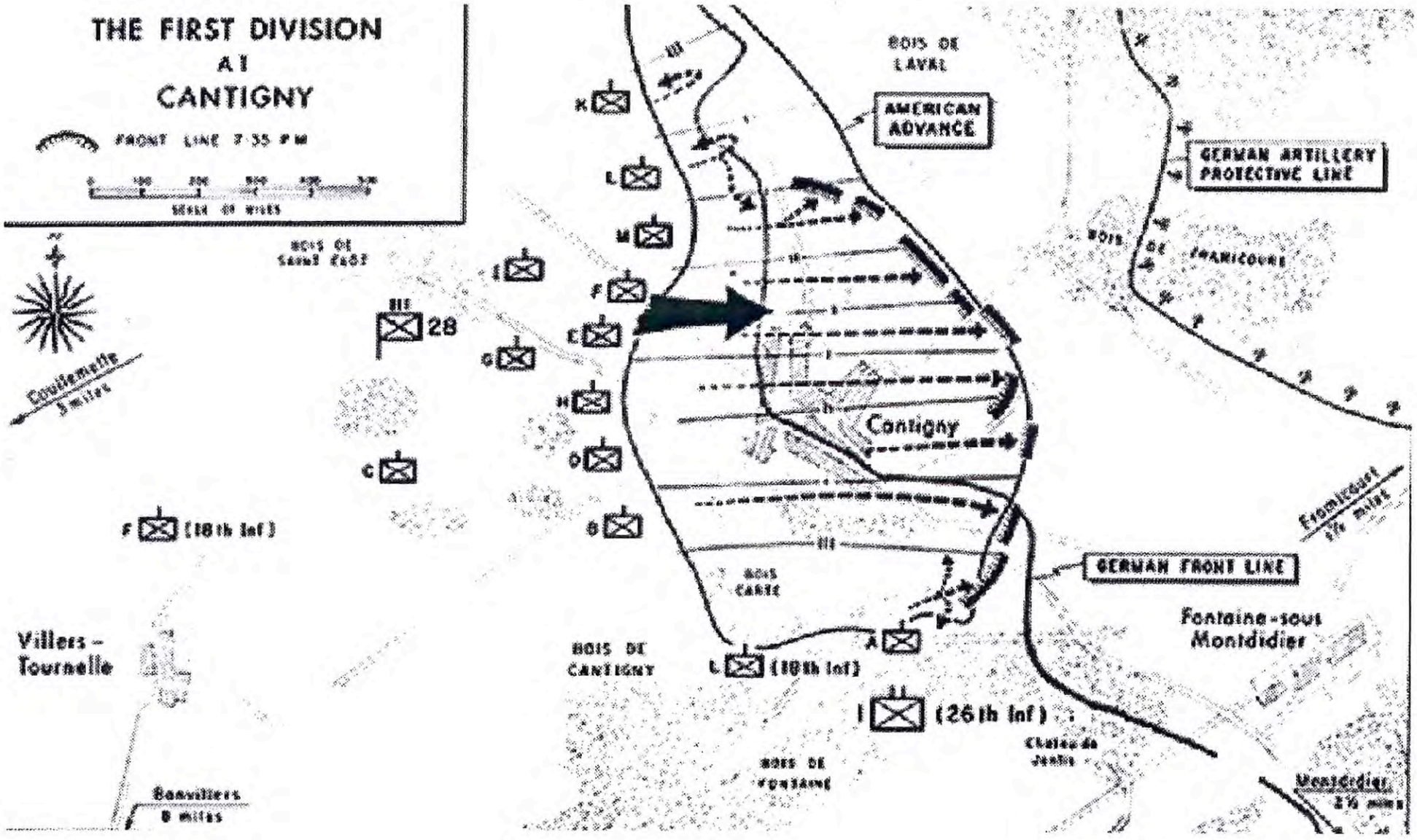
THE FUTURE OF THE ARMED SERVICES

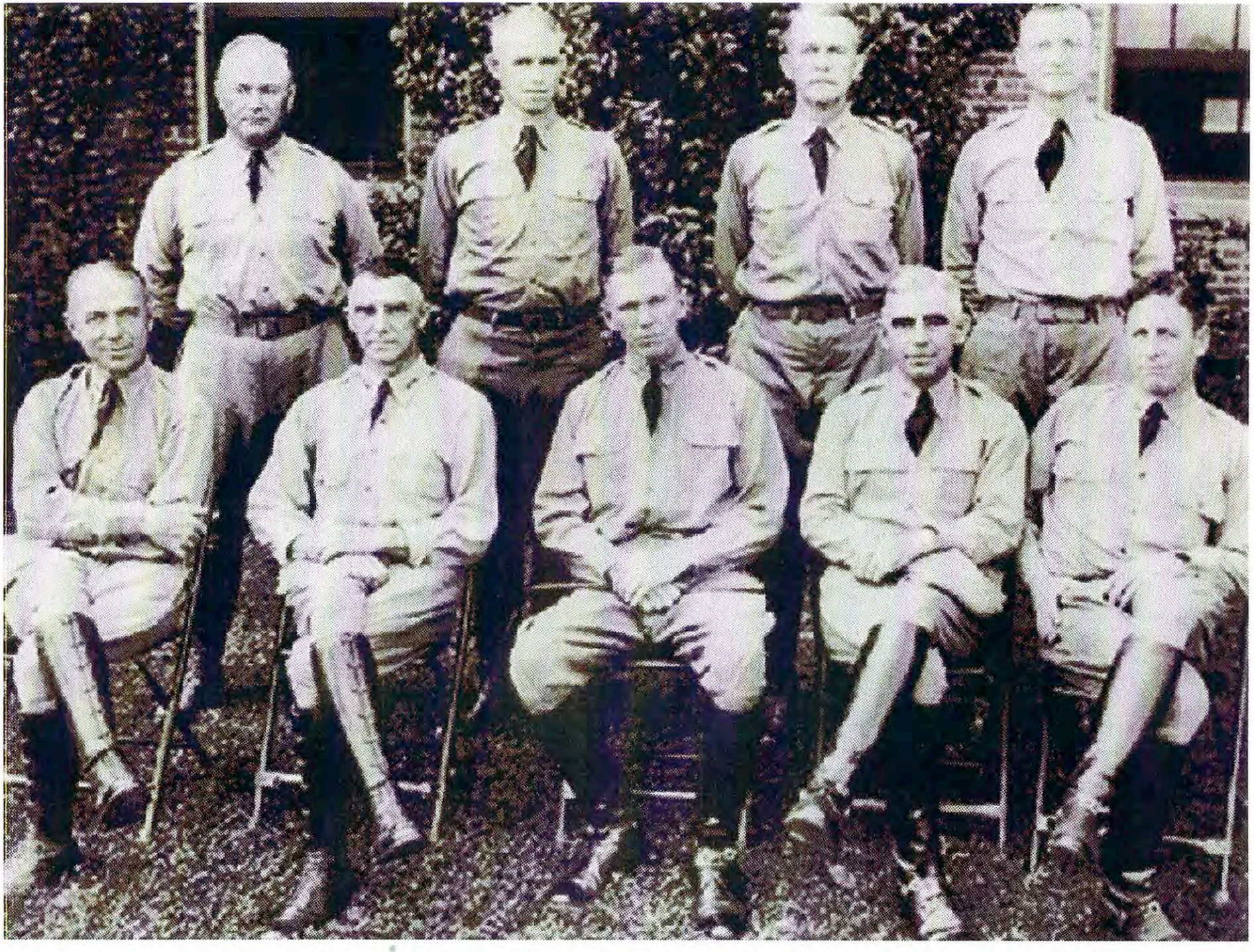
Training for the 21st Century

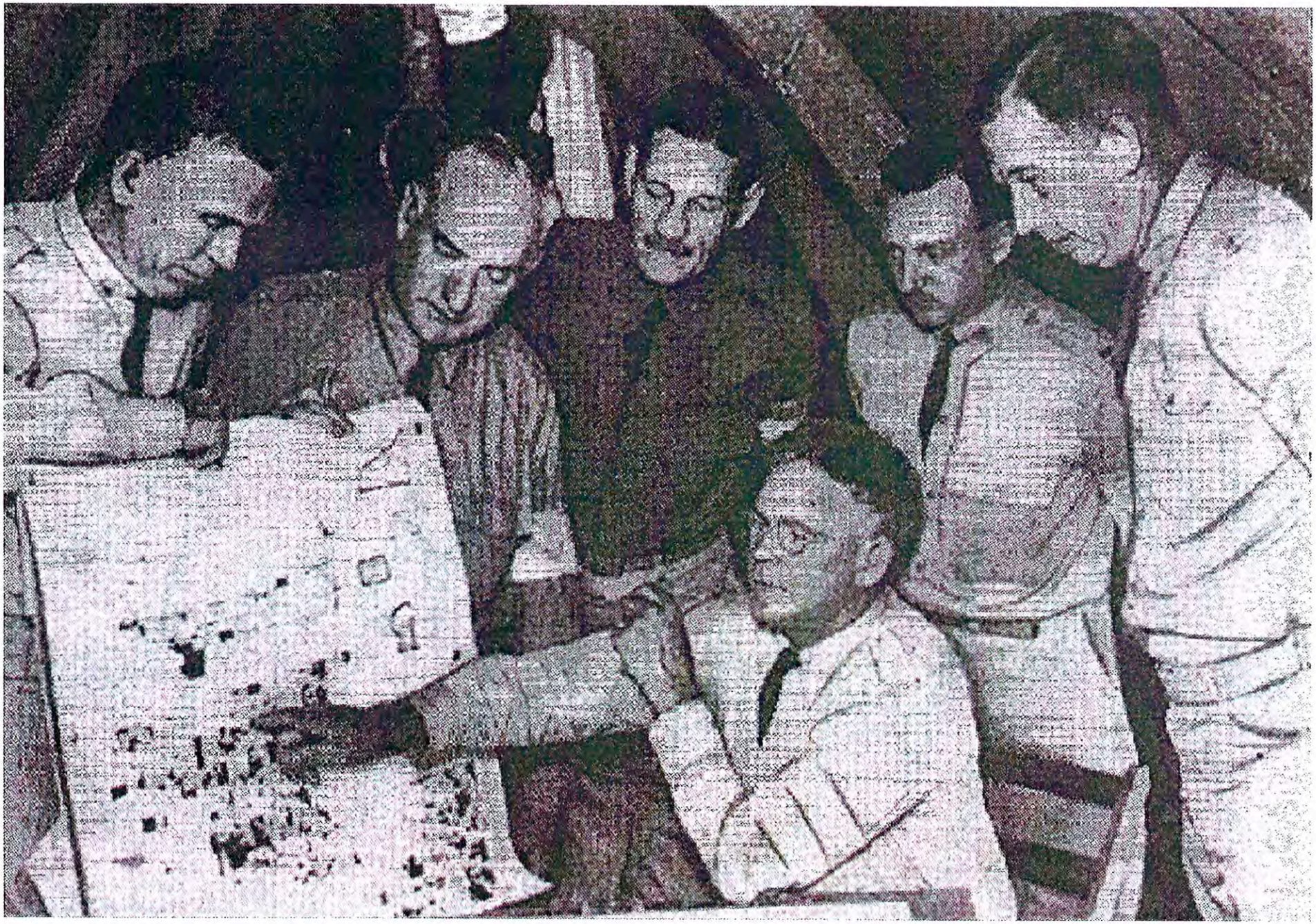
Chairman John P. Murtha
Defense Subcommittee
House Appropriations Committee

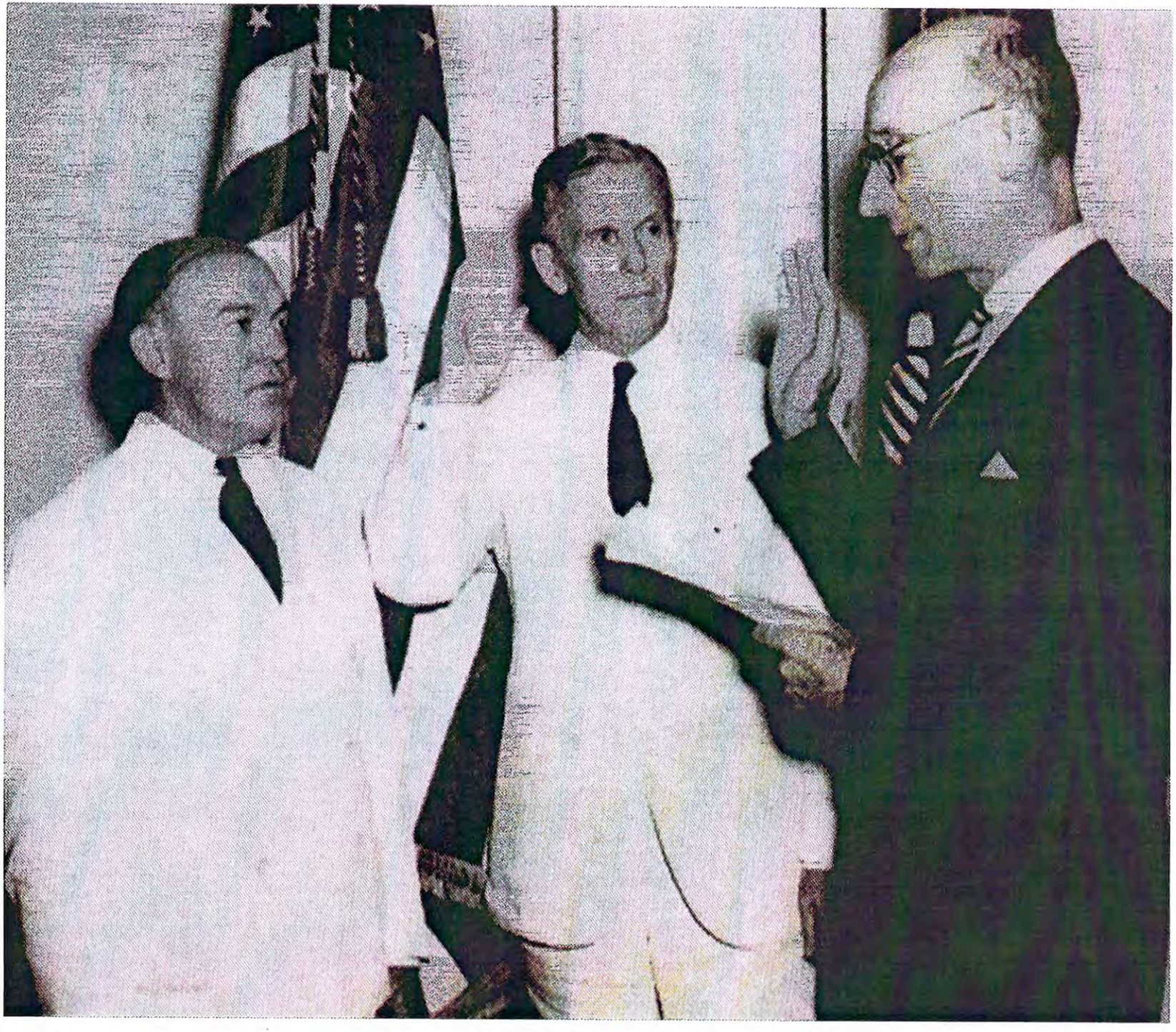
22 July 1992

Paul F. Gorman, General, USA (Retired)

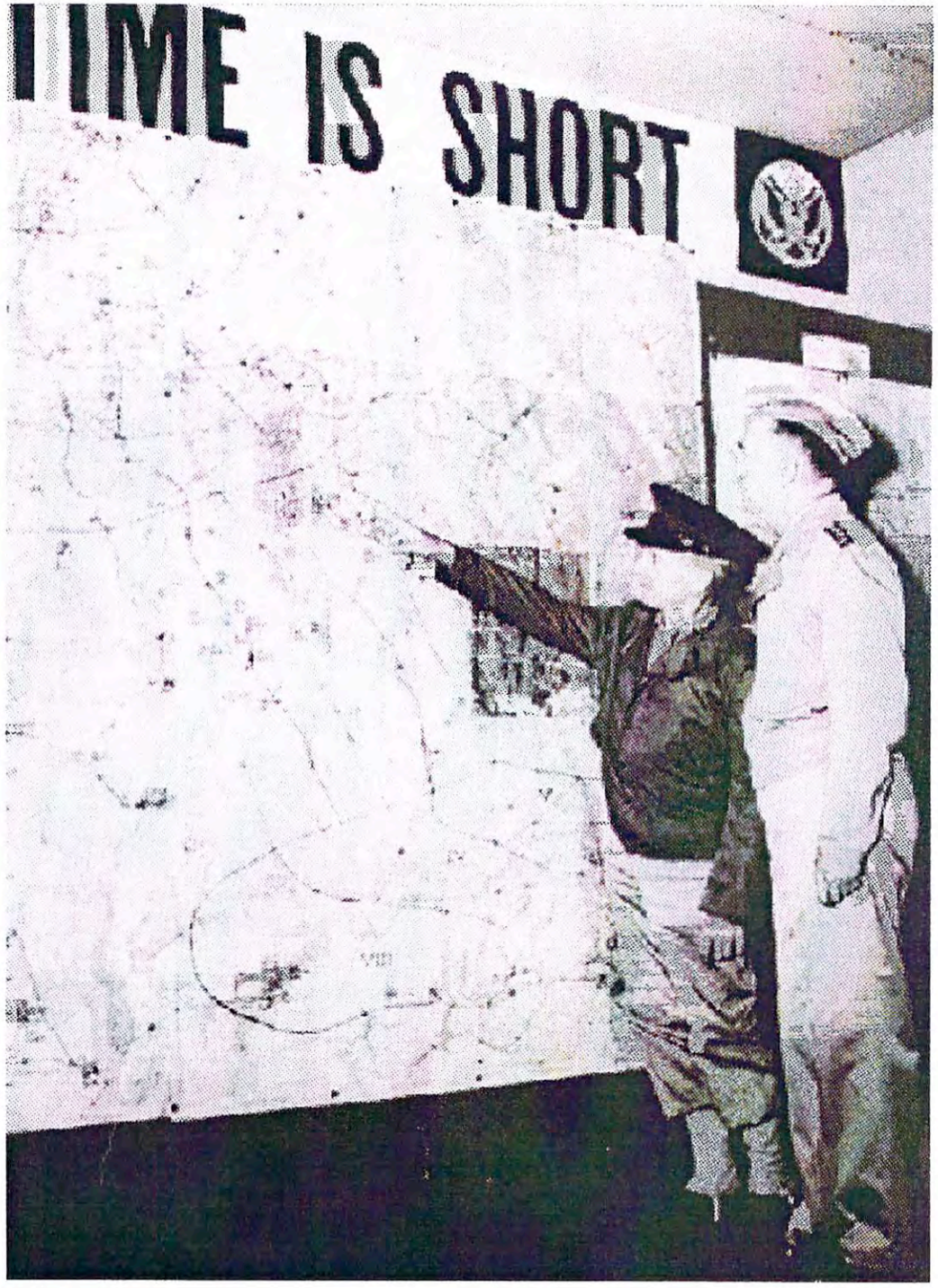

THE FIRST DIVISION
AT
CANTIGNY
FRONT LINE 7:35 P.M.
SCALE OF MILES
BOIS DE LAVAL
AMERICAN ADVANCE
GERMAN ARTILLERY PROTECTIVE LINE
BOIS DE FRAMICOURT
BOIS DE SAINT EAST
28
Cantigny
Couilemette 3 miles
F (18th Inf)
BOIS CARTE
GERMAN FRONT LINE
Fontaine-sous Montdidier
Villers-Tournelle
BOIS DE CANTIGNY
L (18th Inf)
I (26th Inf)
Chateau de Jentis
BOIS DE FONTAINE
Montdidier 2½ miles
Banvillers 8 miles







TIME IS SHORT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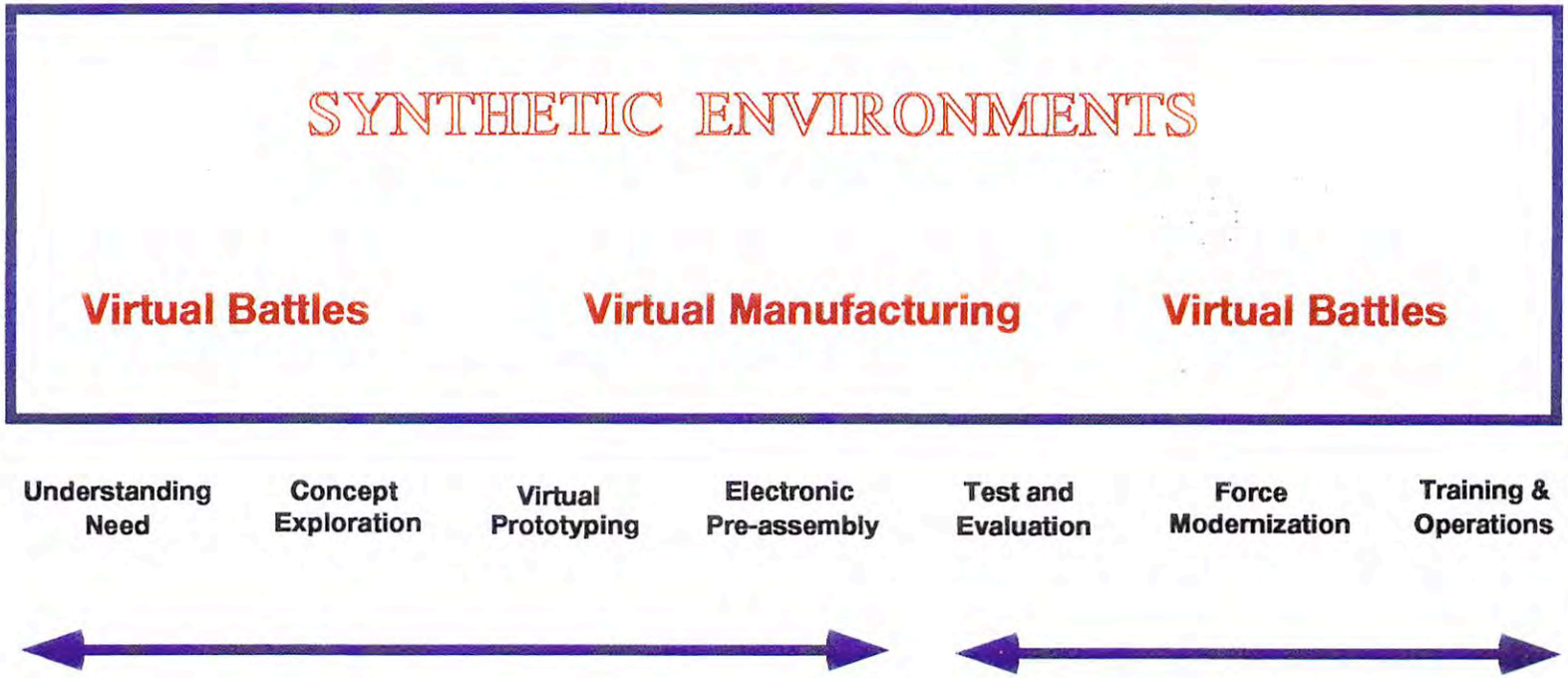

SYNTHETIC ENVIRONMENTS
Virtual Battles
Virtual Manufacturing
Virtual Battles
Understanding Need
Concept Exploration
Virtual Prototyping
Electronic Pre-assembly
Test and Evaluation
Force Modernization
Training & Operations
INVOLVING WAR FIGHTERS ACROSS ALL DEFENSE ROLES

TES Payoff in Air-to-Air Combat

Years	MiGs Killed	U.S. Losses	Overall Kill Ratio	USAF Ratio	USN Ratio
1965-68	110	48	2.29	2.25	2.42
1970-73	74	27	2.74	2.00	12.50

Tes Payoff In Land Combat

"RESULTS SHOWED THAT [T.E.S.] TRAINING INCREASED THE ODDS OF WINNING AN OFFENSIVE MISSION BY:

30:1 FOR LIGHT INFANTRY PLATOONS [N=237]

15:1 FOR COMBINED ARMS TEAMS [N=58]

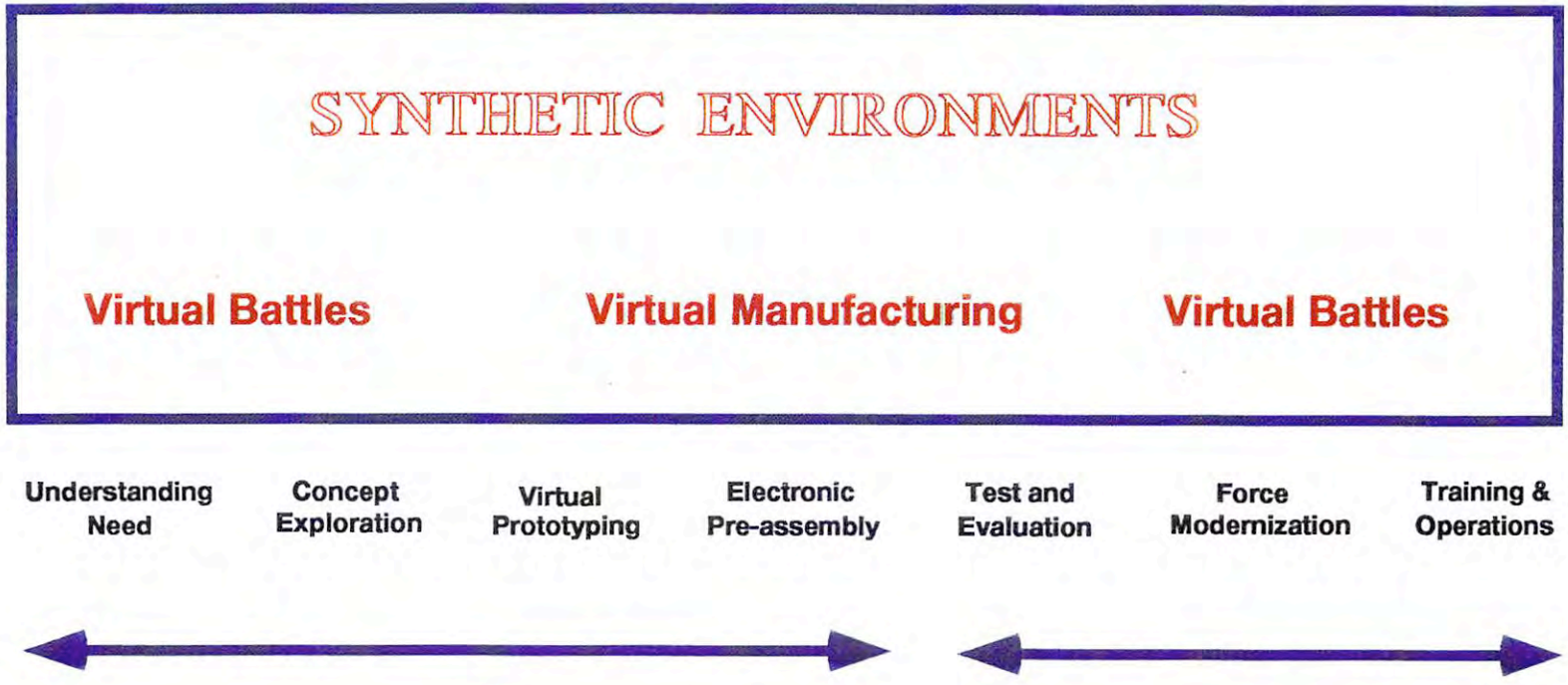
5:1 FOR REGIMENTS OR BRIGADES [N=428]"

Training Transfer with SIMNET

	Improvement	Sustainment
Tank Platoons	69%	91%
Infantry Platoons	67%	96%

AMERICA'S FIRST BATTLES

War	American Revolution	War of 1812	Mexican War	Civil War	War of 1898	World War I	World War II	Korea	Viet Nam	Iraq
Battle	Long Island	Queenston Heights	Rio Grande	First Bull Run	San Juan & El Caney	Cantigny	Buna	Task Force Smith	Ia Drang Valley	73 Easting
Date	1776	1812	1846	1861	1898	1918	1942	1950	1965	1991
Outcome	Defeat	Defeat	☆ Victory	Defeat	Costly Win	Costly Win	Costly Win	Defeat	Costly Win	☆ Victory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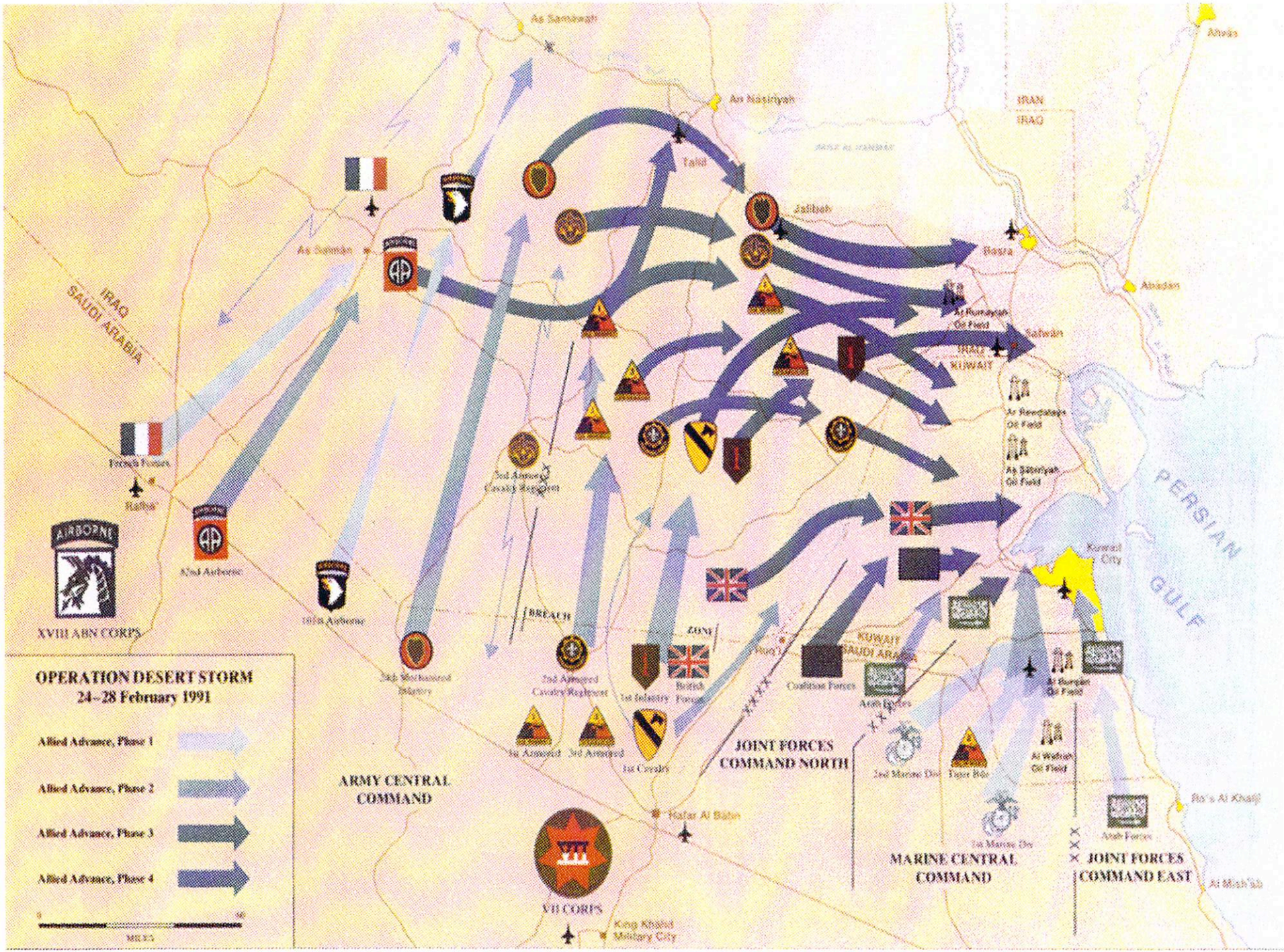
OPERATION DESERT STORM
24–28 February 1991
Allied Advance, Phase 1
Allied Advance, Phase 2
Allied Advance, Phase 3
Allied Advance, Phase 4
MILES
As Samawah
An Nasiriyah
Talil
Jalibah
Basra
Ahvaz
Abadan
Safwan
IRAN
IRAQ
IRAQ
SAUDI ARABIA
IRAQ
KUWAIT
KUWAIT
SAUDI ARABIA
PERSIAN
GULF
Kuwait City
French Forces
Rafha'
AIRBORNE
XVIII ABN CORPS
BREACH
ZONE
Coalition Forces
Arab Forces
Hafar Al Batin
VII CORPS
King Khalid Military City
ARMY CENTRAL COMMAND
JOINT FORCES COMMAND NORTH
MARINE CENTRAL COMMAND
JOINT FORCES COMMAND EAST
Ra's Al Khalji
Al Mish'ab

EAGLE TROOP'S ASSAULT

- ☆ **In 23 minutes, cut 5 mile deep x 3 mile wide swath of destruction through enemy defense.**

- ☆ **Destroyed:*** 28 T-72's
  16 APC's
  39 Trucks

- ☆ **No U.S. losses.**

*Source: U.S. Army Center for Military History

- ☆ **Preserve the Warrior Ethos**
- ☆ **Insure a technological edge**
- ☆ **Foster innovation**