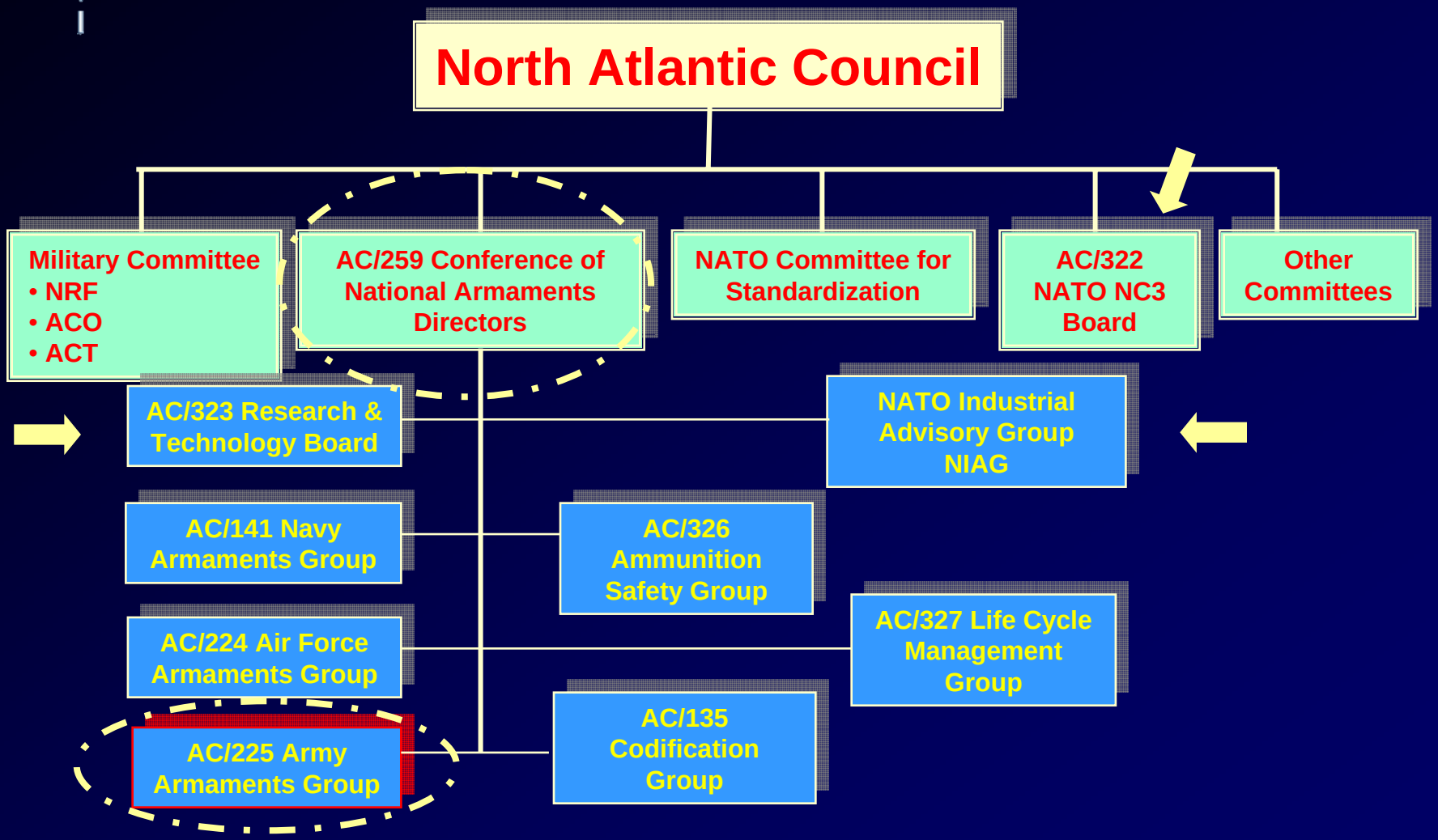
NORTH ATLANTIC TREATY ORGANIZATION
ORGANISATION DU TRAITE DE L' ATLANTIC NORD
AC/225 Land Capability Group 1
Dismounted Soldier

Vernon E. Shisler
Chairman

NATO Structure



NATO Army Armaments Group

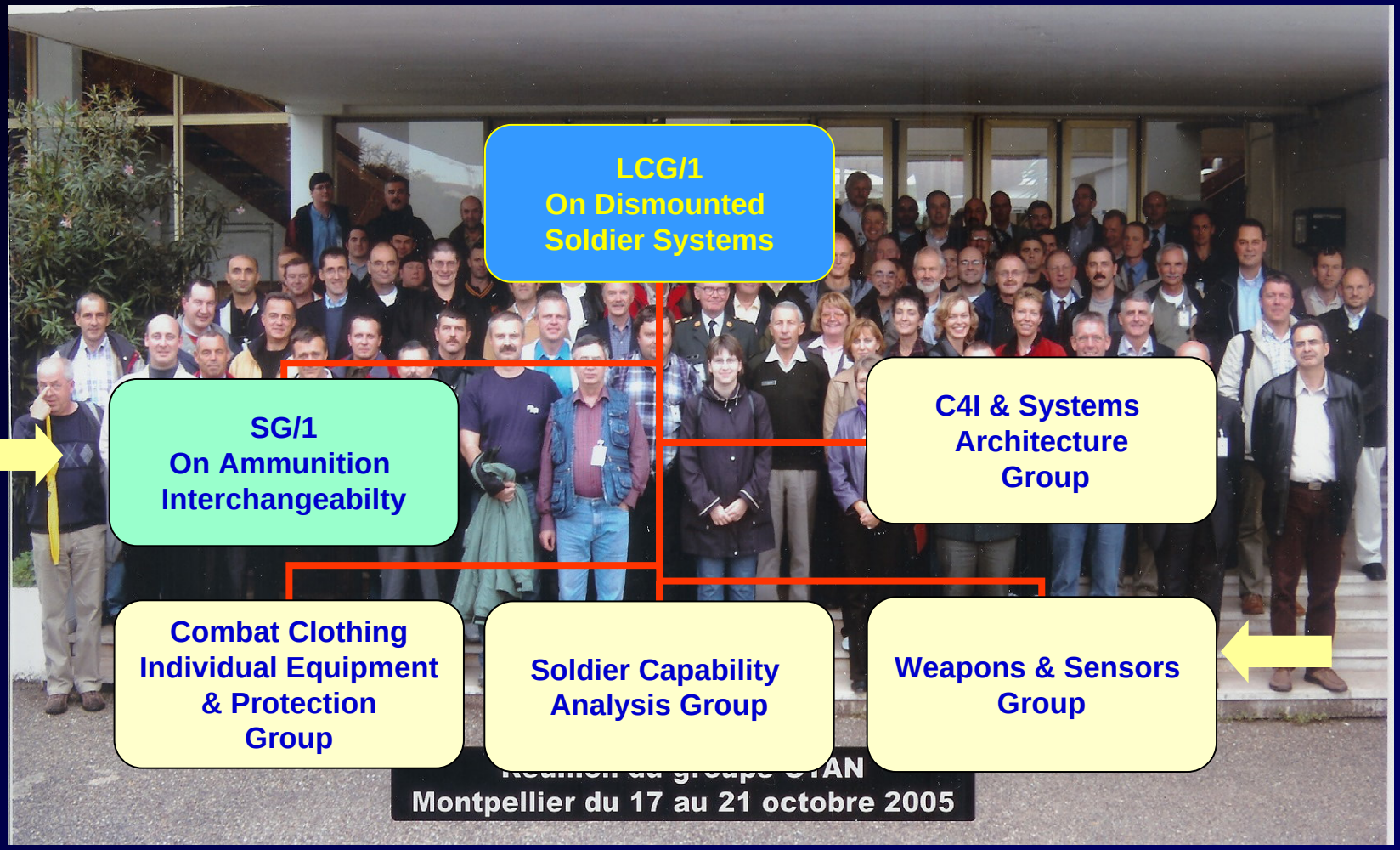
Non-Lethal QRT

AC/225 Army Armaments Group

- **LCG/1 Dismounted Soldier**
  - SG/1 Ammunition Interoperability
  - Weapons & Sensors
  - C4I/Architecture
  - CCIEP
  - SCAG
- **LCG/2 Combat Manoeuvre**
- **LCG/3 Fire Support**
  - SG/2 Accuracy, & Ballistics
- **LCG/4 Ground Based Air Defence**
- **JCG Joint CBRN Defence**
  - SG SIBCRA
  - SG Physical Protection
  - SG Detect/ID/Monitoring
  - SG Hazard Mgt
  - SG Rad/Nuc Defence
  - SG Challenge
- **LCG/6 STANOC & Electronic Warfare**
- **LCG/7 Battlefield Mobility & Support**
- **LCG/8 Tactical Air Mobility & Support**
- **TG/3 Military Operations in Urban Terrain (MOUT)**

Land Capability Group 1 on Dismounted Soldier

LCG/1 and Sub-groups



LCG/1
On Dismounted Soldier Systems

SG/1
On Ammunition Interchangeabilty

C4I & Systems Architecture Group

Combat Clothing Individual Equipment & Protection Group

Soldier Capability Analysis Group

Weapons & Sensors Group

Land Capability Group 1 Management

- Chairman
  - Vernon E. Shisler – USA
- Deputy Chairman
  - Koos Meijer – NLD
- NATO Staff Support
  - Marie-Claire Mortier – NATO
- Land Group 1 US Delegation
  - COL Richard Hansen – PM Soldier Warrior – HOD
  - Mark Richter - MARCORSYSCOM

Current LCG/1 Sub –Group Structure

- **Soldier Capabilities & Analysis**
  - LtCol Mike Bodner – CAN Chairman
- **Combat Clothing Individual Equipment & Protection**
  - Henk Reulink – NLD Chairman
  - Dan Fitzgerald – USA Deputy
- **C4I & Systems Architecture**
  - Rune Launsund – NOR
- **Weapons & Sensors**
  - Mark Richter – USA Co-Chairman
  - Per Arvidson – SWE Co-Chairman
  - US Delegate – Kori Spiegel
- **SG/1 Ammunition**
  - COL Dirk Hemerlick – BEL Chairman
  - John Allen – GBR Superintendent ERTC
  - Dominic Pellegrino – USA Superintendent NRTC
  - US Delegate – Sandy Geddes

Key USA Small Arms Players

Specific Work of LCG 1

Soldier Capability and Analysis Team

- Serve as oversight and provide operational direction to LCG/1
- Develop Operational Scenarios of coalition interoperability at the dismounted individual level
- Provide rationale for work
- CAN has assumed Chair
- Completed 3 Dismounted Coalition Scenarios

  Approved by ACT Feb 2007
- Completed an Overarching Definition and Capabilities document

  Approved March 2007

Specific Work of LCG 1

Combat Clothing Individual Equipment and Protection Team

- Group is addressing LTCR MF/12/6 Integrated Personal Protection (one of the CNAD top 15)
- Ballistic Test Methods for Personal Armour Materials

Approved March 2007

- Updating Laser eye Protection

Specific Work of LCG 1

C4I / Systems Architecture Team

- Develop the ability to exchange tactical map information and individual soldier positional information at the soldier level
- Demonstrations:
  - Rome Oct 2003
  - German Infantry School Oct 2004
  - French Infantry School Oct 2005

Specific Work of LCG 1

C4I / Systems Architecture Team (cont)

- **"Electrical Connectivity Standards for Dismounted Soldier Systems"**

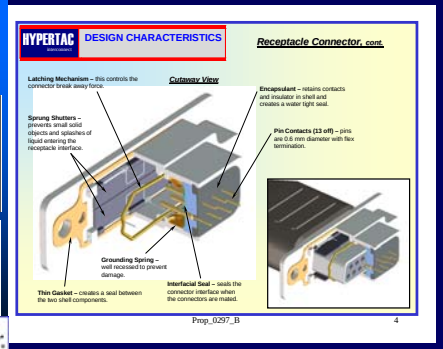
  Approved March 2007

- **"Information exchange data definitions & inter-process communications protocols between dismounted soldier battlefield management systems"**

  Approved March 2007

- **"Connectivity Standards for soldier battle management systems"**

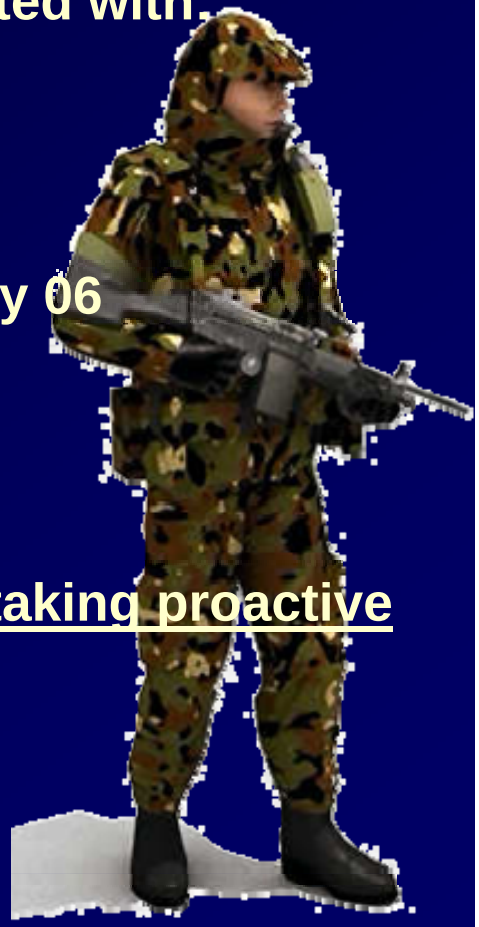
  Approved March 2007



Specific Work of LCG 1

Weapons & Sensors Team

- RTO Study initiated to address issues associated with:
  - ✓ Weapons interfaces
  - ✓ Human Factors & analysis
  - ✓ Electrical Power
- Firing tests conducted at Quantico May 05, May 06
- Deliver a Technical Report by Dec 2008
- Effort will form basis for future work
- Coordinating future national weapon studies, taking proactive approach to future programs like US LSAT



Specific Work of LCG 1

NATO Symbol of Interchangeability

Sub Group 1 Ammunition Interchangeability

Qualify NATO Ammunition designs

- Certify NATO Interchangeability
- Operate NATO Regional Test Centers
- Certify National Test Centers
- This year
  - ✓ Qualified 4 new 5.56mm ammunition designs
  - ✓ Qualified 4 new 7.62mm ammunition designs
  - ✓ Conducted production tests on 14 approved designs
  - ✓ Revised the list of NATO nominated weapons
  - ✓ Completed a draft STANAG and MOPI for 30mm
  - ✓ Two national test centers certified for selected calibers

Specific Work of LCG 1

Industrial Advisory Group

Work with Industry NIAG SG102
(21 companies from 11 nations)

- NATO Industrial Advisory Group (NIAG)
- Study Title: Integration of C4I on Soldier Systems
- Budget Estimate: €300,000
- Completed March 2007

Scope of Work: Study soldier interoperability issues, focus on data modeling and distribution.

Specific Work of LCG 1

Industrial Advisory Group

Work with Industry SG103
(18 companies from 8 nations)

- NATO Industrial Advisory Group (NIAG)
- Study Title: Interoperability for the soldier Systems
- Budget Estimate: €150,000
- Completed April 2007

Scope of Work: Study soldier interoperability issues, focus on lower level interoperability -modules and connectors.

Studies allowed for industry participation and validated the technical approach being taken.

Non Lethal Weapons

- LCG/1 is the lead for NLW in the NAAG
- Significant high level interest in NATO.
- LCG/1 requested higher level guidance on what should be accomplished.
- NAAG Established a Quick Reaction Team (QRT) to discus and define a potential Program of Work by June 2007.
- Future work will likely be assigned to LCG/1
- Will likely require an additional separate sub Team

Recent High Level Activity

- NATO Summit Riga Latvia 28-29 Nov 2006
- Provided a display of LCG/1 activities and equipment at Riga Exposition
- Soldiers and equipment from: FRA, DEU, ITA, NLD, GBR, USA

Riga Summit

Land Capability Group 1 on Dismounted Soldier

Riga Summit

Land Capability Group 1 on Dismounted Soldier

Summary

- NATO / NAAG has restructured to a capability based focus to better align with the ACT.
- LGC/1 is a large group with significant responsibility
- All small arms and dismounted responsibility belongs to LCG/1