

ADVANCE PLANNING
BRIEFING TO INDUSTRY



10 APRIL 2001

JOHN L. FREEMAN

Director, Surface Warfare Programs

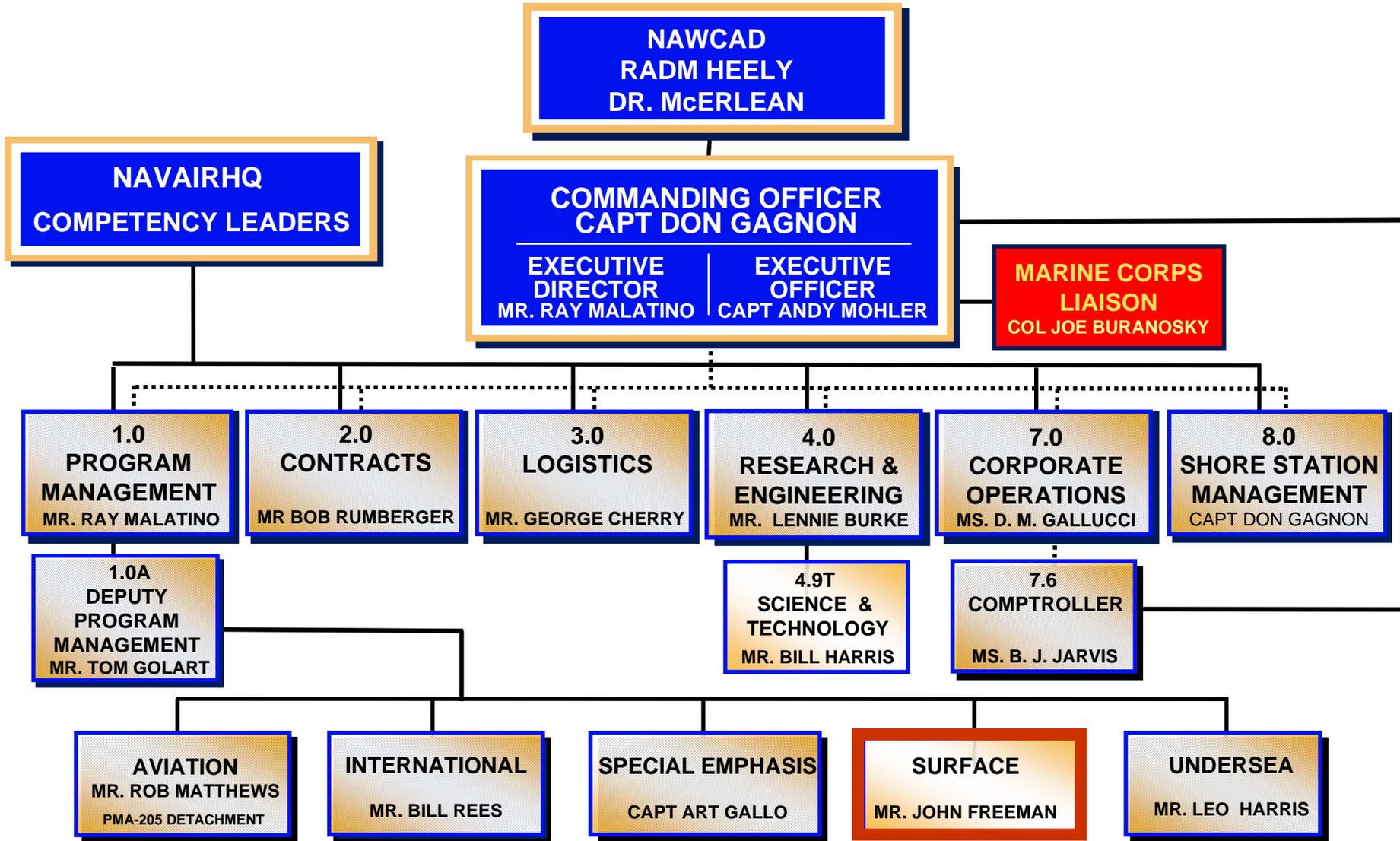
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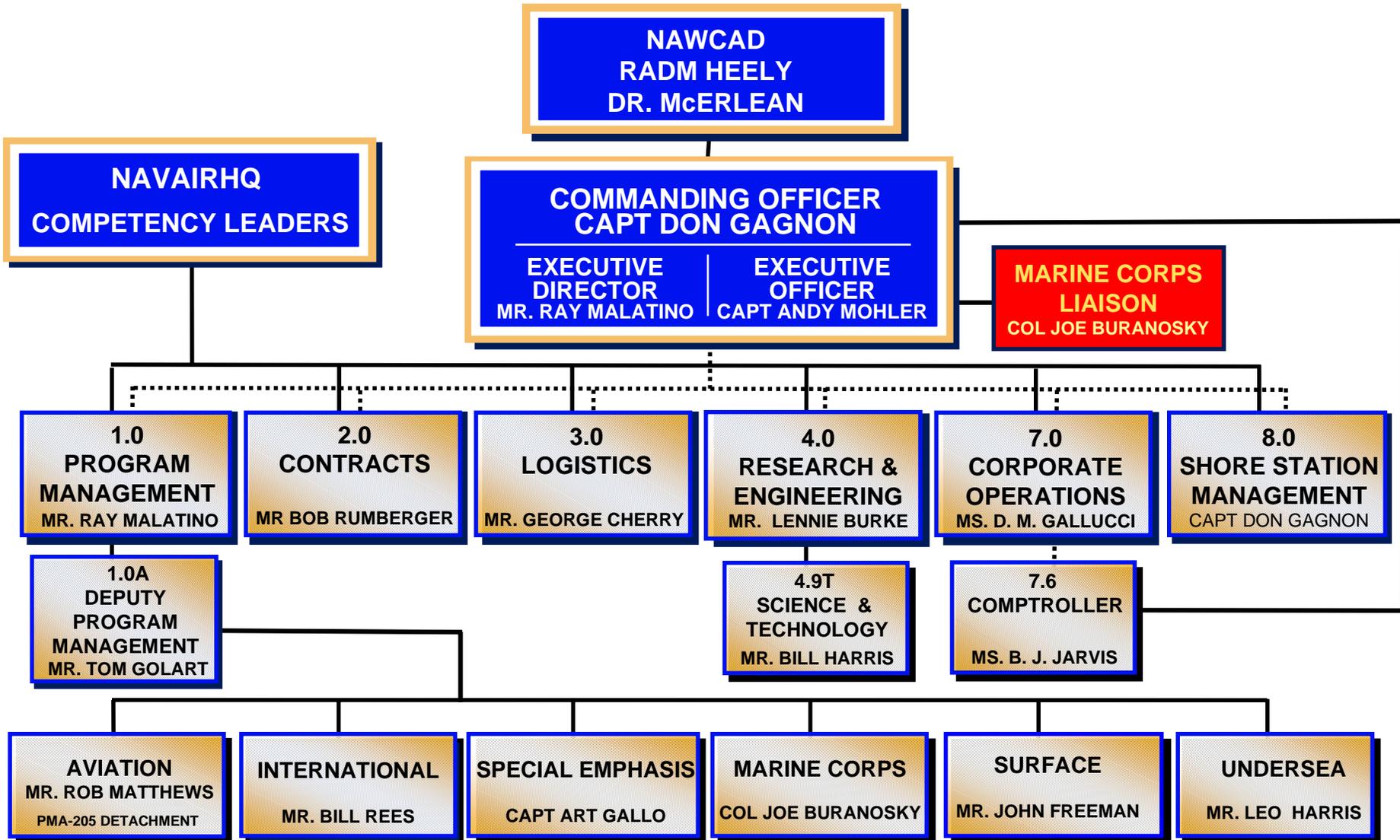


ORGANIZATION STRUCTURE





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BACKGROUND/STRATEGY



CHEAPER, FASTER, BETTER

- Reduce total ownership costs

**TRAINING SYSTEMS/TECHNOLOGIES
INCORPORATING THE LATEST
TRAINING METHODOLOGIES**



**DEPLOYABLE, INTEGRATED (EMBEDDED)
TRAINING TECHNOLOGY**

- Total Ship Training
- Optimal Manning
- Workload Reduction
- Centered in Fleet Concentration Areas





POTENTIAL ACQUISITIONS



- **REQUIREMENT:** Provide modifications and upgrades to existing surface trainers at various sites. Modifications are fleet prioritized and include enhancements, rehosts, hardware/software upgrades and other modernization efforts.
- **CALENDAR YEAR OF AWARD:** FY01-06
- **EST VALUE:** ~\$5M/year
- **POC:**
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POTENTIAL ACQUISITIONS



- **REQUIREMENT:** Modify Device 20G6 LCAC Full Mission Trainer (FMT) to match Service Life Extension Program (SLEP) of the Craft
- **CALENDAR YEAR OF AWARD:** 2003
- **# OF UNITS TO BE PROCURED:**
 - LCAC FMT Serials #1 and #2
- **EST VALUE:** ~ \$7-10M
- **POC:** Jim Lau, (407) 380-4025, LauJR@navair.navy.mil





POTENTIAL ACQUISITIONS



- **REQUIREMENT:** Procure PC-Based Shiphandling Training Technology for the Surface Warfare Officers School Command (SWOSCOM), Newport, RI
- **OBJECTIVE:** Implement Current “COTS” Functionality, Integrate Results of COVE R&D Project
- **# OF UNITS TO BE PROCURED:**
 - One 6-Station System FY01
 - One 6-Station System FY02
- **CALENDAR YEAR OF AWARD:** 2001
- **EST VALUE:** ~\$2M
- **POC:** Jim Lau, (407) 380-4025
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POTENTIAL ACQUISITIONS



- **REQUIREMENT:** Execute a Rehost of the Tactical Advanced Combat Direction and Electronic Warfare (TACDEW) Systems, Device 20F15, at FCTCPAC and LANT
- **CURRENT EFFORT:** Engineering Analysis of Alternatives to Finalize Acquisition Strategy. Estimated Completion of Study: June 2001
- **CALENDAR YEAR OF AWARD:** TBD
- **EST VALUE:** \$2M/year FY02-FY06
- **POC:** Nancy Harmon, (407) 380-4003
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SMARTSHIP INTEGRATED CONTROLS SYSTEM (ICS)



THE CHALLENGE

Implement selected "Smartship" technologies on existing CG-47, DDG-51, Amphibious Ships and Carriers to achieve optimum performance while reducing workload and maintenance costs.

THE GOAL

Develop effective training programs that will maximize crew resources and support a total ship training environment.

- CG-47 Upgrade: Contract Awarded Feb 99
Litton, Woodland Hills, CA

Estimated Value: ~\$1M/annually

- LSD-41 Upgrade: TBD
- DDG-51 Upgrade: New Construction Installs, FY03; "Backfit" begins FY04
- Carrier Upgrade: TBD

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POTENTIAL INDUSTRY INVOLVEMENT

- On-Board and Embedded Training Technologies
- Training Situation Requirements Analysis (TSRA)
- Naval Training Systems Plan (NTSP)
- Front End Analysis (FEA)
- Curriculum Development
- Training Systems for Waterfront, On-Board and Shorebased Training



LPD 17 TOTAL SHIP TRAINING



THE CHALLENGE

Design the next generation amphibious ship to maximize performance, optimize manning and reduce total ownership cost.

THE GOAL

Develop effective and responsive training systems that allow for maximum flexibility in crew resources while focusing on a total ship training philosophy.

- Full Service Contractor: Litton-Avondale Industries Alliance (*Avondale, BIW, Raytheon, Intergraph*) Avondale, LA
- Contracts Awarded: LPD 17, Dec 96; LPD 18, Dec 98; LPD 19, Feb 00; LPD 20, Oct 00

Estimated Value: ~\$2M annually

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POTENTIAL INDUSTRY INVOLVEMENT

- Interactive CourseWare (ICW)/Interactive Electronic Tech Manuals(IETMs)
- Technical Manual conversion to IETM
- Naval Training Systems Plan (NTSP)
- Training Technology Transition/Integration
- Integrated Product Development Environment (IPDE)



FUTURE CARRIER TOTAL SHIP TRAINING



THE CHALLENGE

To develop a total ship training program that exploits emerging innovations to provide for a Continuous Learning Environment.

THE GOAL

Implement technologies that will allow effective management of training information, reduce total ownership costs, and provide for an organic, embedded training capability.

- CVN-77 Contract Awards: Weapon Systems Integration, Jan 00; Platform Design: Jan 01
- CVN(X) currently in Product Development and Risk Reduction (PDRR), Milestone II anticipated April 02

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POTENTIAL INDUSTRY INVOLVEMENT

- Human Factors Engineering
- Front End Analysis (FEA)
- Naval Training System Plan (NTSP)
- Interactive Electronic Technical Manuals (IETMs)
- Embedded Training Technology
- Application of M&S for functional decomposition of “processes”



DD 21

TOTAL SHIP TRAINING



THE CHALLENGE

Design the next generation land attack destroyer and go *"Forward, from the sea..."* with a crew of 95.

THE GOAL

Develop an effective and responsive total ship training program that assesses crew performance and provides the necessary training when it is needed.

Contract Info: 2 Competing Teams

- Concept Exploration Complete
- Preliminary Design Complete
- "Down Select", June 2001

Blue Team: BIW, Lockheed-Martin

Gold Team: Ingalls, Raytheon

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POTENTIAL INDUSTRY INVOLVEMENT

- Front End Analysis (FEA)
- Human Systems Integration
- Interactive Electronic Tech Manuals (IETMs)
- Navy Training Systems Plan (NTSP)
- On-Board, Embedded Training Technologies
- Shorebased and Waterfront Training Technologies



UNITED STATES COAST GUARD PROJECT OFFICE



THE CHALLENGE

To Leverage Training Technologies and Learning Methodologies within the Naval Services to support USCG Training and Readiness Initiatives.

THE GOAL

To support a diverse array of USCG customers and platforms with training technology solutions:

- Cutters
- Coastal Patrol Boats
- Polar Ice-breaker
- Great Lakes Ice-breaker (future)
- Deepwater Project (future)

Estimated Value: <\$5M annually

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POTENTIAL INDUSTRY INVOLVEMENT

- Advanced Distribute Learning (ADL)
- Front End Analysis (FEA)
- Human Systems Integration
- Navy Training Systems Plan (NTSP)
- On-Board, Embedded Training Technologies
- Computer Based Training



CONCLUSION/SUMMARY



- ADVANCES IN TECHNOLOGY ENABLE NEW WAYS TO TRAIN
 - Requirements *"Pull"* vice Technology *"Push"*
- TOTAL OWNERSHIP COSTS (TOC)
- PARTNERSHIPS WITH INDUSTRY AND OTHER NAVAL WARFARE CENTERS TO INTEGRATE TRAINING FROM THE "TOTAL SHIP" PERSPECTIVE
- HELP FACILITATE THE VISION AND STRATEGY FOR SURFACE WARFARE TRAINING, OPNAVINST 1500.57A

<http://www.surfacewarfare.navy.mil/n86/>

