



ORACLE



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Chair Talk

David Floyd

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I hope you all survived our recent winter storm without too much hassle. It continues to amaze me how a snow storm can have such a disruptive impact in the Washington, DC area. Hopefully this will be the last one for this year.

Our January 29 GWAC Luncheon was a great success! Our guest speaker was Mr. Don Bates, Director, JWARS Office, OSD (PA&E). Mr. Bates gave a fascinating briefing on the Joint Warfare System (JWARS). JWARS is a state-of-the-art, constructive simulation that will provide a multi-sided and balanced representation of joint theater warfare. JWARS integrates several existing modeling and simulation systems and major warfare areas. It encompasses both strategic and theater logistics and it will be used by all the services and industry. For more information contact the JWARS Web site at: <https://www.jointmodels.mil/jwars>.

I am getting more excited every day about the 5th Annual Mid-Atlantic Logistics Conference and Professional Workshop to be held 3-5 April 2003 at the Woodlands Conference Center in Williamsburg, VA. This year we will be introducing a 3-track program shown below.

Thursday, April 3 (Day 1)

Professional Development Workshop (8:00 am - 5:00 pm)

Friday, April 4 (Day 2)

Conference Program, consisting of:
Technical Track (8:00 am - 5:00 pm)
Education Track (8:00 am - 5:00 pm)
Logistics Seminar Series (8:00 am - 5:00 pm)

Saturday, April 5 (Day 3)

Conference Program, consisting of:

Technical Track (8:00 am - 4:00 pm)
Education Track (8:00 am - 4:00 pm)
Logistics Seminar Series (8:00 am - 4:00 pm)

Sunday, April 6 (Day 4)

Optional Golf Outing at the Colonial Golf Course

(Continued on page 6...)

February 26 GWAC Luncheon to be held at the Fort Myer Officer's Club from 1130 to 1300. The guest speaker will be Dr. Sandra Hyland, Vice Chair of the National Research Council's Committee on Assessment of Technologies Deployed to Improve Aviation Security. Dr. Hyland will discuss current and future use of technology to screen passengers and their bags and how new screening equipment might be fielded to improve the overall system. For more information see the attached Luncheon Flyer or contact Joyce at McCallister @earthlink.net.

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Chapter Officers

Chair

Dave Floyd 202-406-1384

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Open

Vice-Chair, Finance

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Bylaws

Open

CPL Coordinator

Gary Glick, CPL 703-414-6773

Education

Dr. Lloyd Muller, CPL 703-751-1060

Elections

Open

Historian

Open

Job Referral

Linc Hallen 301-460-5060

Logistics Education Foundation

John Langford 703-602-1912

Membership

Open

Nominations

Open

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Open

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Open

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The ORACLE

The ORACLE is published ten times a year. The deadline for articles and announcements is the first Monday of the month to be published. Authors, please reference "Editorial Objectives and Guidelines" under the "ORACLE Newsletter" Link at: for more details. This Chapter assumes no responsibility for statements made by advertisers or for statements of fact or opinion expressed or implied in this publication.

Upcoming Events

February 24-25, 2003, Configuration Management, Washington, DC. Contact 310-563-1223. Web Site: www.technologytraining.com

February 26 GWAC Luncheon to be held at the Fort Myer Officer's Club from 1130 to 1300. www.gwacsole.org

February 26-28, 2003, Advanced Configuration Management, Washington, DC. Contact 310-563-1223. Web Site: www.technologytraining.com

March 3-6, 2003, Annual National Logistics Conference, New Orleans, LA. Contact 703-247-2587. Web Site: www.ndia.org/events

March 4-6, 2003, Integrated Logistics Support, Washington, DC. Contact 310-563-1223. Web Site: www.technologytraining.com

March 10-11, 2003, Software Configuration Management, Washington, DC. Contact 310-563-1223. Web: www.technologytraining.com

March 12-13, 2003 Advanced Software Configuration Management, Washington, DC. Contact 310-563-1223. Web Site: www.technologytraining.com

March 18, 2003, Council of Logistics Management (CLM) Tour of General Dynamics Plant (see enclosed Flyer)

March 26 GWAC Luncheon to be held at the

Fort Myer Officer's Club from 1130 to 1300. The speaker is Jerry Cothran, Curriculum Development and Support Center, Defense Acquisition University. The topic is Performance Based Logistics (PBL) www.gwacsole.org

April 3-5 April 2003, 5th Mid-Atlantic Logistics Conference and Professional Workshop, Woodlands Conference Center, Williamsburg, VA, www.mid-atlantic-log.org

Financial Report

by **Marian O'Neil** at mtoneil@hotmail.com

January 31, 2002

Beginning Balance: \$3138.22

Income:

Deposit (s): \$210.00

(January Luncheon)

Total Income: \$210.00



Expenses:

\$195.30 (January Luncheon) Total

Expenses: (\$195.30)

Ending Balance: \$3152.92

LEF Scholarship Fund

No Activity \$0.00

Balance \$45.00

VC OPS

The new GWAC web site is live. Visit it now at www.gwacsole.org. We expect that you will find the new web site to eventually be much more user-friendly and more robust. Rebuilding the site into a more substantial site will require some time, however, as BoD and Chapter members provide us content and we work it into web pages (along with the web master finding time). Please be patient as we work through the expected "bugs" associated with such an undertaking.



As usual, please forward any comments on the web site or any topic you have to gwacsole@yahoo.com. We look forward to your comments and to you enjoying your web-browsing experience on our new site.

VC Programs

SOLE International Annual Awards
Heads-up! The SOLE Annual Awards Program is only three months out. Annual SOLE awards are due in the April-May time-frame. Start composing now! The SOLE Awards Manual may be down-loaded from www.sole.org/downloads.asp Scroll down to Awards Manual (18 February 02).



The five major annual awards are:

- o Founders Medal - logistics achievement
- o Eccles Medal - logistics education
- o Armitage Medal - logistics literature
- o Jack Williams Space Logistics Medal
- o Distinguished Service Medal - contributions to the Society

Other awards include:

- o Fellow Award
- o Scholarship Award
- o Chapter Newsletter
- o Small Chapter Awards
- o Medium Chapter Awards
- o Large Chapter Awards
- o Morris "Mo" Grumbie Award
- o Field Awards
- o Young Logistician Award
- o President's Awards for Merit
- o Printed Matter (Prized Paper) Awards
- o International Chapter Awards
- o International Newsletter Award
- o Logistics In the Community Award

BoD Meeting Minutes

CALL TO ORDER:

Acting Chapter Chair (CC), Michael D Connor called the meeting to order at 5:45 PM on 12 February 2003 at Anteon in Crystal City, VA. However, since a quorum of board members was not present, no actions were approved.

MEMBERS PRESENT:

CHAPTER OFFICERS

Mike Connor Acting CC, Vice Chair (VC)
Operations (Opns)
Lyle Paulson, CPL Immediate Past Chair
B.J. Silvey, Executive Board Member (EBM)

OLD BUSINESS:

Past Minutes. The board of directors (BoD) reviewed and recommended the following corrections to the January 2003 minutes.

Members Present. Mike Connor is VC-Operations vice VC-Administrations.

Bylaws Update. VC-Opns did not recommend updating and appending it as part of the updated Policies and Procedures Manual. He recommended updating each as a separate document.

SOLE Exec Mtg. The SOLE Executive Board Meeting will occur on 22-23 February vice 10 February.

VC/COMMITTEE REPORTS:

FINANCE:

Finance Report Approval. The 31 October 2002 GWAC Finance Report was presented and no changes were noted.

OPERATIONS:

Bylaws and Policy and Procedures Update Schedule. VC-Opns briefed the planned schedule for updating the two guiding documents. He requested that the BoD review the documents provided and submit changes to him by the March BoD Meeting. The

documents would then be updated for the April 2003 Meeting and finalized for eventual approval by the chapter members during the May-June timeframe that coincided with BoD Elections.

Chapter Website. The “new” website (www.gwacsole.org) is active and the webmaster has started migrating content from the old web site. He invited all BoD members and chapter members to submit comments and recommendations to him. The webmaster also mentioned that free email addresses (e.g., admin@gwacsole.org, etc.) were available to most BoD Members. He also noted that sub-web pages were established so that BoD members could collaborate on the web site. EBM requested that a link to the Mid-Atlantic Log website be added ASAP.

CHAPTER CHAIR: The Chapter Chair provided his comments separately and are paraphrased below:

National Engineer’s Week Proclamation Luncheon. CC encouraged BoD Members to sign up for the National Engineer’s Week Proclamation Luncheon scheduled for 22 February 2003. EBM recommended that chapter pay for a ‘Bronze’ level of sponsor but the motion was not voted on due to lack of quorum.

Luncheon Signage. A registrant for the January Luncheon got lost in the lobby and never found out that we were meeting in the back. We need a process to ensure registrants and walk-ins know where we are meeting. Recommended that VC-Programs post a simple page size sign at O’Club entrance board that notes location of luncheon.

Board Openings. CC still looking for VC-Admin and Newsletter Editor and would like help in finding volunteers. IPC has possible VC-Admin candidate.

Newsletter Input. Editor has received lim

ited input. Need input ASAP. EXB noted that he was going to write an article on DCCEAS for the newsletter.

New Member Social. CC volunteered his residence for a GWAC Members Social to occur this spring since it is easily accessible by public transportation. There is parking on the street and alcoholic beverages would not be an issue.

NEW BUSINESS:

Speakers. Dr. Hyland is locked in for the February luncheon.

MAL 2003. IPC highlighted that mailing lists had gone out and registration was well underway for MAL 2003. He also noted that there will be three (3) main tracks along with a logistics professional development workshop.

ADJOURNMENT:

There being no further discussions, the Acting Chapter Chair adjourned the meeting at 1900 hours or 7:00 PM. The next meeting is scheduled for 5:45 PM on 12 March 2003 at Anteon in Crystal City, VA.

IMPORTANT: The next BoD meeting will take place in Suite 600 of the same building.

COTS Workshop Review

The NAVSEA/SOLE COTS Steering Board Workshop occurred February 19 - 20 at the Johns Hopkins University Applied Physics Lab. The Southern Indiana Chapter of SOLE was the co-sponsor. The day and half workshop focused on issues of COTS reliability, business processes, technology management, insertion, and refresh, and integration and interoperability of hardware and software. The Southern Indiana chapter put together a first class affair which included catered breakfast, lunch and a reception. There were interesting booths to learn even more during the breaks. The \$175.00 cost was very rea-

sonable for a SOLE member making the early registration deadline.

The keynote speaker was Rear Admiral Bush, USN, PEO Integrated Warfare Systems. Speaker's presentations are to be up-loaded to <https://cots.navsea.navy.mil>. I highly recommend you review the presentations and attend future NAVSEA/SOLE COTS workshops.

Reviewed by Ms. Joyce McCallister, CPL

ARTICLE

DoD Template for Application of Total Life Cycle Systems Management (TLCSM) and Performance-Based Logistics (PBL) in the Weapon System Life Cycle (continued)

This is the third in a series of articles extracted from the current DoD Template for Application of TLCSM and PBL in the Weapon System Life Cycle.

MILESTONE B – System Development and Demonstration (SDD) Phase

During this phase the program and the system architecture should be defined based upon the trade-offs and subsystem/component demonstrations. System design requirements are developed to the major subsystem level. During this phase the support concept and strategy are developed and potential performance based logistics Product Support Integrator and providers identified.

Logistics criteria for consideration during this phase should include:

Mission capabilities: More discrete identification of the taxonomy and metrics rivving performance-based outcomes.

Availability requirements: Especially as tied to support requirements.

Reliability: Both mission and logistics reliability targets, in conformance with an

emphasis on “ultra-reliability” objectives..
Maintainability: Comprehensive identification of both projected maintenance strategy, including diagnostics, prognostics, maintenance duration targets, and similar measures.
Manpower requirements: Both organic and contractor sourced.

Life Cycle Cost Estimates

Support-related performance and acceptance criteria: to be demonstrated during planned testing and through modeling and simulation.

Activities normally accomplished during System Development and Demonstration:

- Continued inclusion of logistics support considerations in detailed design and design reviews to include life cycle costs, and characteristics such as openness, upgradeability, modularity, testability, and commercial technology insertion.
- Continued inclusion of logistics support considerations in any evolutionary acquisition strategy and spiral development decisions.

Verification of support-related design characteristics and product support system

- Identification of Product Support Integrator and potential support providers (public and private) and potential partnering opportunities. Development of performance based logistics Business Case Analysis.
- Product Support Integrator performance outcomes/requirements (e.g. mission readiness, logistics footprint, response times, etc).
- Development of performance based logistics product support concept to include development of warfighter and provider agreements.

Documentation normally available at or developed during this phase:

- Acquisition Strategy
- Acquisition Program Baseline (APB)
- Capabilities Development Document (CDD)

- Test and Evaluation Master Plan (TEMP)

Chair Talk (cont'd)

Professional Development Workshop Accenture, Ltd. will conduct a day long Workshop entitled "Business Results and The Supply Chain Network: Achieving Value by Integrating Business Processes, Operating Structures and Performance Measures".

Technical Track The Technical Program's goal is to provide insight into the latest policy directives, technologies, work processes and workforce issues that not only influence effective logistics support, but the career of the professional logistician.

Education Track The Education Track features both presentations and workshop demonstrations of current "tools kits" for logistics analysis, reliability and maintainability prediction and assessment, and life cycle cost.

Logistics Seminar Series Dr. Lloyd Muller and Dr. John Langford return to our Conference again this year. They will present a total of 12 hours of lecture and discussion in current logistics topics, to include: Systems Management, Systems Design and Development, Acquisition and Product Support and Distribution and Customer Support.

For Speakers/Topics contact the MAL Web site at www.mid-atlantic-logistics.org. Williamsburg is within driving distance of the DC area and is against traffic. Please register by 3 March to receive a discount!

New Members

We have two new members who joined GWAC this month. They are Jim Barrett and Hector Jimenez. More info to follow.

SOLE Searchers

Check out the updated “Jobs” page hyperlink at the GWAC Web site at www.gwacsole.org. or contact Linc Hallen at 301-460-5060.

LOGISTICS TAKES ITS PLACE IN HIGH-FIDELITY MODELING

By Gary Glick, VC Technical

Operational and logistics planners have yearned for a warfare modeling tool that could capture the of material distribution and combat support with the same fidelity as tactical force employment in the same tool. At GWAC's January luncheon, Don Bates showed us how the Joint Warfare System (JWARS) grew out of a family of campaign analysis models to achieve a useful synthesis of tactical and logistic factors that, before now, required the separate modeling of intratheater and inter-theater logistics in time-consuming and often incompatible modeling structures. Leveraging more than 40 years of simulation architecture expertise, The Joint Warfare System (JWARS) is a constructive, multi-sided, balanced simulation of joint theater warfare. It is critical to the analyst that a proper representation of logistics be designed and implemented in the model. Mr. Bates, the director of the OSD Joint Warfare System program, described development and initial release of JWARS, and explained the design of the Intertheater mobility and intratheater multi-modal network which represents the movement and distribution of personnel, equipment and supplies across the campaign model network.

Until about 1995, campaign modeling of any significant level of fidelity required the separate representation of ORD (top-level operational) capabilities in a limited number of operational force-on-force stochastic (measured) relationships, usually covering only one or a very few aspects of a campaign (e.g., air suppression or the movement of ground forces). The next generation of fully integrated models like THUNDER used a Monte Carlo approach to predicting force effectiveness from sophisticated functional relationships, but required days or weeks to set up and run. Campaign analysis models (like TACWAR and THUNDER) which were useful in determining the

detailed effect of force employment alternatives used overly simplistic logistics assumptions and could not demonstrate the effect of theater-level material movement and positioning decisions, and detailed logistics models (like LOGSIM) lacked the ability to study differences in tactical force employment. In 1995, the Deputy Secretary of Defense directed a broad approach for initiating a phased program to upgrade the existing joint analytical models and simulations in the near term, and to develop a new set of next-generation models over the long term which can assess current and future operational concepts, including Joint Vision 2010's dominant maneuver, precision engagement, focused logistics, and full-dimension protection.

JWARS provides a "balanced representation of Joint Warfare". This balanced representation provides visibility into:

- 1) The C4ISR systems and processes that are an integral part of US CONOPS
- 2) The impact of logistics, both strategic and intratheater, on the warfight
- 3) Maneuver warfare at the operational level.

These capabilities respond to known deficiencies in the current state-of-the-art in military modeling. They also form the core modeling contributions of the simulation. JWARS is being developed using high quality Computer Aided Software Engineering (CASE) tools as an event-stepped simulation that describes the behavior and interaction of military forces across the joint spectrum at a level of resolution previously unachieved at the campaign level. This more highly resolved view includes an explicit three dimensional battlespace, models the effects of terrain and weather, and reflects logistically constrained force performance. Ongoing JWARS development effort

(Continued on next page)

Chapter Events List 2002-2003

Date Event

Feb 26 Chapter Luncheon
Mar 1 Deadline for May CPL Exam Retake Request
Mar 3 Oracle Newsletter Inputs Due
Mar 12 BoD Meeting
Mar 26 Chapter Luncheon
Mar 31 Update Chapter Membership Directory
Mar 31 SOLE Awards Year Ends
Apr 1 Receive Updated Awards Manual
Apr 1 Deadline for Fellow Nomination
Apr 1 Deadline - Prize Logistics Paper Nomination
Apr 3-5 Annual Mid-Atlantic Logistics Conference
Apr 9 BoD Meeting
Apr 10 Quarterly Activity Report Due
Apr 15 Deadline for Chapter Awards Nominations
Apr 15 Deadline for Chapter Newsletter Award
Apr 15 Deadline for Scholarship Nominations
Apr 15 Outstanding Logistics Grad Student Paper
Apr 30 Chapter Luncheon
May 1 Deadline for Founders Medal Nomination
May 1 Deadline for Eccles Medal Nomination
May 1 Deadline for Armitage Medal Nomination
May 1 Deadline for Williams Space Logistics Award
May 1 Deadline for Distinguished Service Medal
May 1 Deadline for Mo Grumbine Award Nomination
May 1 Deadline for SOLE Field Award Nomination
May 1 Deadline for President's Award for Merit
May 1 Deadline for Young Logistician Award
Nomination
May 3 CPL Exam (1st Saturday)
May 14 BoD Meeting
May 28 Chapter Luncheon
Jun 11 BoD Meeting
Jun 25 Chapter Luncheon
Jun 25 Chapter Elections Ballots Due
Jul 9 BoD Meeting
Jul 10 Quarterly Activity Report Due
Jul Local Chapter Election Results Submitted
Aug 1 Deadline for Applications for CPL Exam
Aug 10-14 Annual SOLE Symposium
Aug 13 BoD Meeting
Sep 1 Deadline for Nov CPL Exam Retake Request
Sep 10 BoD Meeting
Sep 25 Chapter Luncheon
Sep 25 New Chapter Officers Sworn In
Sep 30 Chapter Officers Term of Office Ends
Sep 30 Program Year Ends

(Continued from previous page)

includes user's groups, user participation in the design process, and a study team that is exercising the simulation continuously. Additionally, JWARS development is being observed by a formal V&V contractor and is programmed for formal beta and operational testing.

Don Bates explained that work on JWARS is continuing through subsequent releases. Future capabilities will include increased capability to manage complexity, internal and external testing, additional warfare regimes and force employment scenarios, and greater fidelity in modeling strategic mobility. What used to require days of scenario development, model preparation, population, execution, and post-analysis now requires only hours. In its early releases, each Military Service is able to achieve greater flexibility, responsiveness, and fidelity from JWARS than was possible in their native campaign models only a couple of years ago. The logistician, meanwhile, has been promoted to the status of full participant in the battle space, and influence in warfare functionality.

This article was prepared using material contributed by Daniel T. Maxwell, Ph.D.,

Principal Modeling and Simulation Engineer, MITRE Corporation, in an overview of JWARS available on http://www.mitre.org/support/papers/tech_papers99_00/maxwell_jwars/maxwell_jwars.pdf.

Contact SOLE HQ

Contact SOLE Headquarters at www.sole.org or call (301) 459-8446.



*Please join the Greater Washington Area Chapter
(GWAC)*

of

SOLE – The International Society of Logistics

on



Wednesday February 26, 2003

at the Ft. Myer Officers' Club from 11:15 am to 1:00 pm

for a \$15 buffet lunch and talk by

Dr. Sandra Hyland

**Vice Chair of the National Research Council's
Committee on Assessment of Technologies
Deployed to Improve Aviation Security**

The attacks of September 11, 2002, led to many changes in the approach to aviation security in the US. Many of these are obvious to any traveler – the increase in focus on screening people and their bags at checkpoints, and the increased screening of checked baggage. Some changes are more organizational in nature, as in the move to make the screener workforce a Federal government responsibility. Dr. Hyland will discuss current and future use of technology to screen passengers and their bags, and how new screening equipment might be fielded to improve the overall system.

Dr. Sandra Hyland is Vice Chair of the National Research Council's Committee on Assessment of Technologies Deployed to Improve Aviation Security. She has served in a volunteer capacity on this committee for three years, and was the committee staff person for four years. Dr. Hyland is East Coast regional manager for each process with Tokyo Electron Massachusetts, a subsidiary of Tokyo Electron Limited. She holds a Ph.D. in materials science from Cornell University and a B.S. in electrical engineering from Rensselaer Polytechnic Institute. Dr. Hyland has a background in electronic materials and integrated circuit processing, with an emphasis on materials and processing of solar cells. Previous work experience includes several years with the National Research Council, IBM Federal Systems Corporation, and the Jet Propulsion Laboratory.

*RSVP to Joyce McCallister, CPL by Monday Feb 24 at
mccallister@earthlink.net or 703-217-8431*



Mid-Atlantic Log

Announcing the

5th Annual Mid –Atlantic Logistics

Conference & Professional Development Workshop

3-5 April 2003

Woodlands Conference Center, Williamsburg, VA

Logistics Strategies for Success

The Chapters of District 02 of SOLE, the International Society of Logistics, are pleased to announce the 5th Annual Conference and Professional Development Workshop.

- ◆ Professional Development (PD) Workshop conducted by Accenture Corporation on Thursday, April 3rd
- ◆ The conference on Friday and Saturday, April 4th and 5th, will focus on “Logistics Strategies for Success”
- ◆ The keynote speaker is Rear Admiral Walter P. Massenburg, Assistant Commander for Logistics (NAVAIR 3.0)
- ◆ This venue will showcase new industry-wide innovations and changes in approach and evaluation techniques
- ◆ Industry and corporate representatives will be displaying products and services in the exhibit area
- ◆ A parallel education track for professional logisticians in Government and Industry
- ◆ An Optional Golf Outing at The Colonial Golf Course, Sunday am, April 6th (\$85 includes fees, cart, range ball)
- ◆ Continuing Education Unit (CEU) credits will be awarded for the education track and the Professional Development Workshop

Workshops, Speakers, panels, and exhibits, on topics such as:

Enterprise Resources Planning (ERP) ---- Supply Chain Management ---- Reliability Analysis
 The Pentagon Renovation Project ---- USAF Standard Base Supply System (SBSS) ---- Automated Identification
 Technology ---- Total Ship Training System (TSTS) ---- Supply Chain Logistics ---- Performance Based Service
 Acquisition (PBSA) ---- Concurrent Engineering Supportability Analysis ---- Best Value Analysis (BVA)
 Performance Based Logistics ---- Total Ship Systems Engineering System (TSSE)
 Total Ownership Cost (TOC) ---- Acquisition Reform

For additional information, registration forms go to

www.mid-atlantic-log.org

Colonial Williamsburg

Woodlands Hotel and Suites, 105 Visitor Center Drive, Williamsburg, VA 23185

www.colonialwilliamsburg.com or 1-800-HISTORY (Ask for MAL 2003 Conference Room Rates)

(Ask for MAL 2003 Conference Room Rates)

Payment Received On or Before 3 March 2003		After 3 March 2003	
PD Workshop SOLE Member	\$ 95	PD Workshop SOLE Member	\$125
PD Workshop Non-SOLE Member	\$125	PD Workshop Non-SOLE Member	\$155
MAL Conference SOLE Member	\$ 95	MAL Conference SOLE Member	\$125
MAL Conference Non-SOLE Member	\$125	MAL Conference Non-SOLE Member	\$155
Optional Golf Outing	\$ 85	Optional Golf Outing	\$ 85

DD Form 1556 accepted



COUNCIL OF LOGISTICS MANAGEMENT®

NATIONAL CAPITAL AREA ROUNDTABLE NOTICE

FACILITY TOUR: General Dynamics Plant Tour

LOCATION: General Dynamics, 14014 Worth Ave., Woodbridge, Va.

DATE: March 18, 2003 (RSVP by February 28th)

Interested personnel should contact: Douglas A. Stokes, GDLS Materials Planning,
(703) 497-3849, E-Mail: stokesda@gdls.com for details

****Space is limited****

General Dynamics has a long history of Weapons Developments as well as Combat Systems, Submarine and Surface Ships, and Armored Vehicles for all branches of the U.S. Military and NATO Allies Worldwide.

The Woodbridge Facility (a Division of General Dynamics Land Systems) is currently in development of several weapons with primary focus on the Advanced Amphibious Assault Vehicle (AAAV). The AAAV is a tracked vehicle designed to deliver U.S. Marines.



GEORGE J. CREED, CIPS, CRS, GRI

ASSOCIATE BROKER, NOTARY



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Remember to visit your GWAC home Page at
www.gwacsole.org
for all your logistics and Chapter needs

From:

To: