

# THE MONITOR AND MERRIMACK



Newsletter of the  
Greater Hampton Roads Chapter  
District 02 – Chapter 03  
SOLE – The International Society of Logistics  
May 2010  
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## Chapter Management Committee

### Chapter Chairperson:

Charlie Littleton

### Vice Chair – Membership:

Brandon Cholek

### Vice Chair – Admin:

Carl Lilieberg

### Vice Chair – Finance:

Rick Treto

### Vice Chair – Education:

Lee Morris, CPL

### Vice Chair – Professional &

### Technical Development

Akalanka Warusavitharana, CPL

### Logistics Education Foundation

(LEF) Liaison Vacant

Newsletter: Carl Lilieberg

Web Master: Charlie Littleton

### District Director:

Dave Floyd, CPL

## From the Chapter Chairman:

Happy Belated Mother's Day! Can you think of a better logistician than a mother? She has more challenges than a normal logistician should ever have! Just the supply chain management for a family can be a formidable task. Often each family member relies on their mother to provide for their needs and those expectations can run extremely high! Tag on to this, the transportation needs, home/car maintenance as well as training for the family and you have a challenge. Next time you're talking with your mother, share with her your respect for the tremendous logistics work she does for you and your family. And for you mothers who are reading this thank you for all you do! We owe you a tremendous debt of gratitude.

Thank you to **Lieutenant Commander Gwen B. Garcia**, Chief of Staff, Defense Distribution Depot, Norfolk, Virginia for our Chapter's Tour and your Command's Presentation. I would also like to recognize **Brandon Cholek**, Membership Vice Chairman, who did a tremendous job organizing this event.

**Mr. Steve Carmel**, Vice President, Maersk Lines Maritime Services will be our speaker at this month's luncheon. His topic will be "Global Logistics Operations and Their Impact on the Tidewater Area." See page 4 for more details.

Our schedule for the upcoming luncheons is on page 5 so take a look and mark your calendars!

It's that time of year for election chapter management nominations for the upcoming year. The chapter is always looking for volunteers and we need your support so please if you feel you can volunteer some time contact a member of the chapter or send Brandon Cholek your name for position you would like to fill.

Have a great month and see you at the next luncheon.

Charlie Littleton  
Chairman GHRC SOLE



On the Eve of Summer

## Coming Events:

**20 April – Defense Distribution Center Norfolk Tour**

**19 May GHRC \*Luncheon.**  
**Mr. Steve Carmel, Senior VP, Maritime Services, Maersk Lines, Ltd.\***

**23 June, GHRC Luncheon.**  
**NASA Space Station Refurbishment**

**21 July,**  
**Liebherr Mining Equipment Co. Tour, Newport News, Va**

**15-19 August: SOLE Intl. Conference and Exhibition**

**September:** Century Express,  
Edward O'Callaghan

\* GHRC Luncheon at Ward's Corner #1 Chinese Restaurant unless otherwise noted

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## Certified Professional Logistician Corner



The next CPL Exam  
will be given in  
November 2010

1. Some more factors to consider in equipment disposal include:
  - a. How much equipment can be salvaged and used for other purposes?
  - b. Can the material be processed, converted and used in the manufacture of another product?
  - c. Is the method of disposal consistent with ecological and environmental requirements?
  - d. All of the above.
2. The major functions performed in the disposal stage include:
  - a. Transportation of disposed material to site.
  - b. Packaging of material to the user.
  - c. Disassembly of material for proper disposal and treatment.
  - d. A and C only.
3. Material disposal is really the responsibility of the:
  - a. Material management manager.
  - b. The disposal manager.
  - c. The overall program manager.
  - d. The logistics manager.
4. The ILS functions required for material disposal are:
  - a. Manpower and Personnel, Transportation and Handling, Facilities, Technical Procedures, and Storage.
  - b. Manpower and Personnel, Transportation and Handling, Facilities, Technical Procedures, Training and Storage.
  - c. Personnel, Transportation, Facilities, Procedures and Training.
  - d. None of the above.
5. The types of items that require proper disposal include:
  - a. Consumer products.
  - b. Non-toxic wastes.
  - c. Biodegradable materials.
  - d. None of the above.
6. The most difficult items to dispose of include:
  - a. Nuclear materials, biodegradable materials and non-corrosive products.
  - b. Explosives.
  - c. Toxic chemicals, corrosive materials.
  - d. Small items, nuclear powered ships and aircraft.
7. An important rule to follow in disposal is that:
  - a. The same level of detail must address deployment as production.
  - b. The same level of detail must address material disposal as production.
  - c. The same level of detail must address disposal as all of the stages of the life cycle process.
  - d. None of the above.
8. Which of the following is true for Disposal Phase?
  - a. It is usually not given the importance in the formal logistics support plan that it deserves.
  - b. A set of disposability criteria are always laid out in the logistics support plan.
  - c. It is usually considered in the initial design phase of a system.
  - d. B and C only.
9. Which of the following phrases are true?
  - a. A set of disposability criteria should be established for material disposal and phase-out in the formal logistics plan.
  - b. Disposal should be considered secondary to the other phase of life cycle process.
  - c. Disposal costs are always lower than validation costs.
  - d. Disposal is always shorter than validation.
10. Functions performed in the Disposal Phase are:
  - a. Transportation to disposal sites, handling, disassembly, decomposition of material.
  - b. Transportation to disposal sites, disassembly, decomposition.
  - c. Handling, disassembly and decomposition.
  - d. Replenishment and/or refurbishment.

Near term Calendar of Events

ASNE	Dinner Meetings:	Every 3 <sup>rd</sup> Tuesday, Springhill Suites, Newtown Road, Va. Beach, (1800-1900 Social Hour); 1900-2030 Dinner and Program; Reservations: Mar Morgan (757) 495-1970
	13 May 2010	Captain Chris Meyer, Commander NSWC Carderock The Drydock Club at Norfolk Naval Shipyard
	19 May 2010	Yearly Social and Awards Dinner, Norfolk Yacht Club
NDTA Tidewater	20 May 2010	Annual Golf Tournament (Eagle Haven, Littke Creek)
	17 June 2010	Chesapeake Bay Bridge Tunnel Tour
GHRC SOLE	19 May 2010	<b>Steve Carmel</b> , Senior VP Maritime Services, Maersk Lines, "Global Logistics Operations and Their Impact on the Tidewater Area"
	23 June 2010	NASA Space Shuttle Refurbishment
	21 July 2010	Liebherr Mining Equipment Company Tour
SOLE	15-19 August 2010	Annual Conference and Exhibition, Dallas (Irving), Texas

Answers			
1	d	6	b
2	d	7	c
3	c	8	a
4	b	9	a
5	d	10	a



## Joint Meeting



### **SOLE – The International Society of Logistics Greater Hampton Roads Area Chapter**

**Wednesday May 19, 2010  
11:00 – 1:00 PM**

**#1 Chinese Buffet, 7635 Granby Street  
Norfolk, Virginia  
Phone: (757) 423-8880**

**Mr. Steve Carmel  
VP, Maersk Lines Maritime Services  
“Global Logistics Operations and Their  
Impact on the Tidewater Area”**

Please RSVP by contacting our Membership Chairman, Mr. Charlie Littleton at [clittleton@LCE.com](mailto:clittleton@LCE.com) or phone him at 757-857-1311 (ext: 4203) or our Chairman, Carl Lillieberg @ 757-896-5335/Carl J. Lillieberg @ngc.com NLT 4 PM, Monday, 17 May 2010.

Guests are welcome. Cost is \$15, payable in cash or check at the door (covers the meal and gratuity). Please join us for a luncheon of great food, professional contact, and a timely and informative logistics presentation. Spouses and guests, bosses, and co-workers are welcome and you DO NOT have to be a SOLE Member to attend!

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**Driving Directions:** From I-64 E through the HRT. Take the I-564 exit onto US 460W (Granby St/Naval Base). Take the left ramp to Granby. Turn right onto Granby and the restaurant is on your right after passing the railroad crossing.  
From I-64 W: Take I-64W to VA 165-Little Creek Road off ramp onto Taussig Blvd. Turn left onto Granby St. and after crossing the railroad restaurant is on your right.



### 2010 Calendar Greater Hampton Roads Chapter Monthly Schedule

	Business Meeting	Lunch/Tour	Topic
March	8	No Mtg.	Speaker Conflict: District 2 PDF 24/25 March
April	8	20	Defense Distribution Center (DLA), Norfolk Tour
May	10	19	Steve Carmel, Senior VP, Maersk Lines, Ltd.
June	14	23	NASA Space Shuttle Refurbishment
July	12	21	Liebherr Mining Equipment Co Tour, Newport News, Virginia
August	9	NA	SOLE Intl. Conference and Exhibition, Dallas (Irving), Texas (15-19 August 2010)
September	13	22	Century Express, Edward O'Callaghan Install new management team
October	11	20	ATS, IT Tools: Data Mining
November	8	17	Global Insight GHRC Mini Training Workshop
December	13	NA	TBD

**GHRC Tour of the Defense Distribution Center, Norfolk**

Brandon Cholek, Membership Vice Chairman, Greater Hampton Roads Area Chapter, presents a chapter Letter of Appreciation to Lieutenant Commander Gwen B. Garcia, Chief of Staff, Defense Distribution Depot, Norfolk, Virginia on the occasion of our Chapter's Tour and Command Presentation. Commander Garcia provided us an update of Defense Logistics Agency Infrastructure and current and future planned changes in management of global, national and regional infrastructural DoD material movements. Paul VanHoosen and Chris Toledo, Defense Distribution Management, also provided detailed briefs on the Norfolk Distribution Depots operations, including plans for future changes in supporting all services and agencies in their operating area. The folks at the Depot really laid the red carpet out for our group. Our attendees also enjoyed a full tour of the Depot's main distribution facility. We enjoyed then enjoyed a luncheon the nearby Ruby Tuesday's. We thank them for a superb tour and insightful briefings!

**SOLE MEMBERSHIP**... The Return on Your Investment is a Better You (reprinted from the SOLE Headquarters Website)

When considering membership in SOLE – The International Society of Logistics, you have every right to ask: "What's in it for me?"

Membership in SOLE sets you apart from the norm. It shows that you are a proactive, results-oriented individual who wants to be on the leading edge of your profession. It demonstrates commitment to personal and professional growth and says that you have empowered yourself to be a leader in your field. What better way to make your mark on the worldwide Logistics community? When you make a commitment to join SOLE you make a commitment to yourself. The benefits of SOLE membership are your building blocks for a great future.

**PROFESSIONAL DEVELOPMENT PROFESSIONAL**

**New Technologies and Best Logistics Practices** - Membership in SOLE entitles you to a role in shaping the future of your chosen profession. Take an active role in promoting current initiatives like:

**Performance Based Supportability** - reducing the cost of ownership by design

**Reverse Logistics Management** - utilizing logistics to develop, implement and sustain eco-efficient business practices that create multi-profit cycles for products

**Outstanding Seminars and Workshops** - Only SOLE offers training across the entire spectrum of logistics; many programs in cooperation with renowned educational institutions.

**Quarterly Journal** - Theme issues of the *Logistics Spectrum* explore the hottest topics in your areas of expertise.

**Annual International Logistics Conferences with Exhibitions** - Learn from and network with the world's leading logistics professionals, at symposia/congresses in the U.S. and abroad.

**Special Interest Conferences** - Hone the skills required for your area of expertise or explore new areas of interest.

**Certification Programs** - SOLE's CML and CPL programs are the only internationally recognized professional "whole enterprise" logistics certifications. Recertification requirements continuously validate your expertise and elevate the designation's recognition in industry.

**Designation Programs** - SOLE's Designated Logistician programs – to include the Army, Raytheon, Global Logistics Council of Taiwan and other company-specific applications – afford logisticians worldwide the opportunity to be recognized for their experience, education and training through a series of designations as either a Demonstrated Logistician (DL), Demonstrated Senior Logistician (DSL), or Demonstrated Master Logistician (DML). Recognized in both defense and industry worldwide, these non-exam programs form the foundation of your recognition as an expert in your field.

**Scholarships** - Take advantage of educational assistance. Scholarships and Doctoral Dissertation Awards are available for every level of academic study in logistics and related disciplines.

**Application Divisions** - Join one or more of SOLE's nine special interest groups to focus your development in your area(s) of interest.

**PEER RECOGNITION**

**Publish** - SOLE offers ample opportunity to publish journal articles, monographs, technical papers; or conference presentations and proceedings.

**Speak and Teach** - Share your knowledge and expertise at local (chapter) or national meetings, conferences, seminars and workshops.

**Leadership** - Distinguish yourself as a leader in your profession by participating in SOLE management. Opportunities abound at the local, national and international levels.

**Awards** - Earn recognition for outstanding contributions to your industry and your society.

**CAREER ADVANCEMENT**

**Resume Clearinghouse** - Don't miss out on that dream job. Post your resume to SOLE's website, and search for openings free of charge.

**Job Recruitment Services** - Professionals help you find the right job, in the right place, for the right salary.

**Global Logistics Network** - Members helping members, the Global Logistics Network reaches out across the worldwide logistics community to bring its combined knowledge to your fingertips.

Revised March 2009

[Find out more or join SOLE](#)

*CALL FOR PAPERS*

**SOLE – The International Society of Logistics**

*presents*

**SOLE 2010**

***Global Logistics Sustainability***

***45th Annual International Logistics Conference and Exhibition***

**Omni Mandalay Hotel at Las Colinas**

**Dallas (Irving), Texas**

**15 – 19 August 2010**

**Workshops: 15 - 16 August 2010**

**Conference: 17 - 19 August 2010**

SOLE - The International Society of Logistics (SOLE) presents its 45th Annual International Logistics Conference and Exhibition, held this year at the Omni Mandalay Hotel at Las Colinas, Dallas (Irving), Texas from 15-19 August 2010. With a conference theme of "Global Logistics Sustainability," the symposium will offer two days of pre-conference workshops and three full days of exciting, educational and topical offerings designed to provide logisticians from all countries a unique understanding of the issues surrounding the many aspects of achieving and maintaining organizational, mission and functional sustainability. Representatives from Government, the Armed Services, Industry and Academia – both nationally and internationally – will serve as keynoters, plenary and panel participants, and paper presenters.

SOLE 2010 will offer paper presentation sessions that address the many aspects of logistics sustainability, to include but not be limited to: *Transparency and Accountability in Logistics; Design and Sustainability; Maximizing Our Resources; Defining and Growing the 2020 Logistician; Sustainable Logistics IT Constructs/Models; Logistics Mission Sustainment; The Role of Public-Private Logistics Partnerships; Tradeoffs in Information Sharing and Information Protection; and New Structures for the Future.*

If you are interested in submitting a paper for consideration, please submit an abstract by 15 April 2010. If accepted for SOLE 2010, the paper must be submitted no later than 31 July 2010 – with the slide presentation to be submitted by 5 August 2010. For additional information and submissions, please contact either *John (Jay) Erb, SOLE 2010 Deputy Chair, at (703) 246-0756 or SOLE Headquarters at (301) 459-8446.* Only electronic submissions will be accepted at [john.erb@gdit.com](mailto:john.erb@gdit.com).

**GHRC Chapter Management Officers:**

**Charlie Littleton, 757-857-1311(4203)  
Chairman**

**Brandon Cholek, 757-962-1510  
Membership Vice Chairman**

**Rick Treto, 757-578-3338  
Finance Vice Chairman**

**Akalanka Warusavitharana, CPL, 757-961-2630  
Professional and Technical Development Vice Chairman**

**Lee Morris 757-464-5252  
Education Vice Chairman**

**Carl Lilieberg, 757-896-5335  
Administrative Vice Chairman**

**CHAIRMAN/WEBMASTER**

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**SOLE Information**

**SOLE-The International Society of Logistics is a nonprofit professional society composed of individuals devoted to enhancing logistics technology, education, and management. For further information on SOLE or this chapter, contact any of the individuals listed on the front page of this newsletter.**

***We're On the Web!*  
[www.ghrc-sole.org](http://www.ghrc-sole.org)**

**SOLE and You! Did you know?**

“SOLE was founded in 1966 as the Society of Logistics Engineers “to engage in educational, scientific, and literary endeavors to advance the art of logistics technology and management.” There are over 90 SOLE chapters in more than 50 countries throughout the world. Chapters conduct technical meetings, symposia and workshops, all designed to provide the SOLE member with opportunities for professional advancement. Chapters and districts also sponsor regional technical meetings.”

Our Tidewater-based Greater Hampton Roads Area Chapter of SOLE – The International Society of Logistics is one of the oldest chapters having been founded in 1968, and has been a steady influence on local logistical progress and development. We are active in supporting state-of-the-art logistics events such as our recent District Professional Development Forums and SOLE’s Annual International Logistics Conference and Exhibitions present the latest in logistical techniques and trends. Our Chapter includes both the Peninsula and Southside (south of the Hampton Roads Tunnel), to include all cities and Suffolk, etc. We embrace all those interested in advancing logistical knowledge through our monthly Luncheon and Tours which are open to all interested.

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**DoD Adds Blog to Military Science Dialogue (Reprinted from Defense AT&L, Acquisition and Logistics Excellence, May-June 2010)**

*SPECIAL TO AMERICAN FORCES PRESS SERVICE (FEB. 18, 2010)*

*Ian Graham*

WASHINGTON—Science has seized the popular imagination. There are magazines, popular books, Web sites, webcasts, blogs, documentary films, and even television channels devoted to science and technology. The practical applications of science and technology also can be found in almost every aspect of military operations, a topic that is discussed in great detail in the award-winning weekly webcast, “Armed with Science: Research and Applications for the Modern Military,” produced by the Defense Media Activity.

The popularity of the Armed with Science webcast in its first year has prompted the Defense Media Activity to expand its online presence. A new Armed with Science blog, <<http://science.dodlive.mil>>, premiered in late January. The new blog includes articles, archived webcast episodes, transcripts, images, and videos. “Expanding into the blogosphere will allow us to develop a dialogue between our listeners and the scientists, engineers, operators, and administrators who are involved in DoD science,” said Brian Natwick, general manager of The Pentagon Channel and acting director of DoD’s Emerging Media Directorate. The new blog will provide a better forum to highlight the critical role of science and technology in military operations, Natwick said, while demonstrating how research conducted to meet military requirements often benefits society as a whole.

Les Benito, director of the Defense Media Activity’s Public Web Directorate, said the blog also will provide an opportunity to experiment with emerging social technologies and implement strategies that better engage the public. It will bolster a social media portfolio that already includes efforts on Twitter, Facebook, and BlogTalkRadio.“

Continued on Page 11

### DoD Adds Blog to Military Science Dialogue (Continued from Page 10)

We hope to develop a more user-centric and interactive Web site that evolves over time to meet the needs of our audience,” Benito said. “Consider this is an experiment in progress.”

John Ohab, a new technology strategist at the Defense Media Activity’s Public Web Directorate and host of the weekly webcast, said the blog will place specific emphasis on the men and women who are involved in research, development, and education at the Defense Department. By focusing on their individual stories, Ohab hopes the blog will help break down traditional myths about science and technology that hinder some people from pursuing related careers.

“Science isn’t just for scientists,” Ohab said. “Not only does science and technology help make our servicemembers safer and more effective, they also impact virtually everything we do in civilian life.”

*Graham is assigned to Defense Media Activity’s Emerging Media Directorate.*

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### **What’s Up with Air Force Logistics (and History)** (Source Wikipedia: Air Force):

**Air Force Logistics Command (AFLC)** was a [United States Air Force](#) command. Its headquarters was located at [Wright-Patterson Air Force Base, Ohio](#). On July 1, 1992, AFLC and [Air Force Systems Command](#) were merged to form the [Air Force Materiel Command](#), also located at Wright-Patterson AFB

### **Lineage**

- Established as **Army Air Forces Materiel and Services** on July 14, 1944

Organized as a major command on July 17, 1944

Redesignated: **Army Air Forces Technical Service Command** on August 31, 1944

Redesignated: **Air Technical Service Command** on July 1, 1945

Redesignated: **Air Materiel Command** on March 9, 1946

Redesignated: **Air Force Logistics Command** on April 1, 1961

Inactivated on July 1, 1992

Continued on Page 12

**Air Force Logistics Command Structure and History.** (Continued from Page 12)

**Operations**

The command traces its heritage to 1917 when the Equipment Division of the [U.S. Army Signal Corps](#) established a headquarters for its new Airplane Engineering Department at [McCook Field, Dayton, Ohio](#), a [World War I](#) experimental engineering facility.

The functions of research and development and logistics were operated separately during World War II until they were reunited for several years in the late 1940s under **Air Materiel Command**. Then, in 1950, research and development were split off into a separate organization, the [Air Research and Development Command](#).

In 1961, Air Materiel Command became the **Air Force Logistics Command**, while the Air Research and Development Command gained responsibility for weapon system acquisition and was renamed the Air Force Systems Command.

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**Underway replenishment** ([UNREP](#)) ([US Navy](#)) (Reprinted from AbsoluteAstronomy.com)  
or **replenishment at sea** ([RAS](#)) ([NATO](#))  
is a method of transferring fuel, munitions, and stores from one ship to another while under way.

**History**



Prior to underway replenishment, [coaling stations](#) were the only way to refuel ships far from home. This however had two disadvantages: the competition between the colonial powers for suitable sites astride the world's trade routes, and the introduction of a predictable pattern to a nation's naval operations.

Following some early development starting at about 1900 for transferring coal, the technique of underway replenishment was perfected by the [United States Navy](#) in the late 1930s and used extensively as a logistics support technique in the Pacific theater of World War II.

Since it allowed extended range and striking capability to naval task forces the technique was classified so that enemy nations could not duplicate it. Presently, most underway replenishments for the United States Navy are handled by the [Military Sealift Command](#). It is now used by most, if not all, blue-water navies.

Continued on Page 14

Greater Hampton Roads Chapter  
SOLE – The International Society of Logistics  
Chapter Business Meeting Minutes



**Date:** Monday, 8 April 2010

**Meeting Convened:** 5:15 PM

**Attendees:**

- Charles Littleton, Chapter Chairman
- Carl Lilieberg, Admin Vice Chairman
- Rick Treto, Vice Chairman Treasurer
- \* Akalanka Warusavitharana, CPL, Professional Development Vice Chairman
- Brandon Cholek, Membership Vice Chairman

The meeting convened at 5:15 PM (on time).

- We began by going over updates and plans for the 2010 GHRC Monthly Meetings Schedule.
- Carl is creating a flyer for our April 19<sup>th</sup> Tour of the Defense Distribution Depot.
- Rick Treto briefed the Status of our Chapter Funds, noting that funds are in balance.
- We then discussed the status of our 2010 to 2011 Elections. Brandon Cholek, our Elections Committee Chairman, briefed progress to date. The committee is composed of Brandon, Lee Morris, and Rick Treto. They are working to a July Elections and a call for nominations and self-nominations is out.
- We then went over tentative plans of a workshop on Transportation, Homeland Defense and the Logistics Impact on the Economy in October/November 2010 or early Spring 2011.
- Charlie Littleton reminded all re Chapter Awards nominations: Newsletter, Field, etc. deadlines for submissions.
- Carl Lilieberg noted he was on course to have our Quarterly Business Report in draft ready for Charlie Littleton's input for an on time submission.

There being no more new items, a motion was made and seconded to close the proceedings at 6:10 PM.

### Underway Replenishment (Continued from Page 12)

Germany used specialized submarines (so called "milk-cows") to supply hunter U-boats in the Atlantic during World War II. However these were relatively ponderous, took a long time to transfer stores, and needed to be in radio contact with the replenished boat, all conspiring to make them rather easy targets. Due to this, they were soon retired from their supply role.

### Alongside connected replenishment



The **alongside connected replenishment**, also known as CONREP, is a standard method of transferring fluids, such as fuel, ammunition, and break bulk goods. The supplying ship holds a steady course and speed, generally between 12 and 16 knots.

The receiving ship then comes alongside the supplier at a distance of approximately 30 yards. A gunline, or shot line, is fired from the supplier, which is used to pull across a messenger line. This line is used to pull across other equipment such as a distance line, phone line, and the transfer rig lines. As the command ship of the replenishment operation, the supply ship provides all lines and equipment needed for the transfer. Additionally, all commands are directed from the supply ship.

Because of the relative position of the ships, it is possible for some ships to set up multiple transfer rigs, allowing for faster transfer or the transfer of multiple types of stores. Additionally, many tankers are set up to service two receivers at one time, with one being replenished on each side.

In the U.S. Navy, aircraft carriers are always replenished from the port side of the supply ships – the starboard (right) side of the carrier. The design of the aircraft carrier, with its overhanging flight deck, does not permit replenishment from the carrier's port side.

Most other ships can receive Alongside connected replenishment is a risky operation, as two or three ships running side-by-side at speed must hold to *precisely* the same course and speed for a long period of time. A slight steering error on the part of one of the ships could cause a collision. For this reason, experienced and qualified helmsmen are required during the replenishment, and the crew on the bridge must give their undivided attention to the ship's course and speed. The risk is increased when a replenishment ship is servicing two ships at once.

In case of emergency, crews practice emergency breakaway procedures, where the ships will separate in less-than-optimal situations. Although the ships will be saved from collision, it is possible to lose stores, as the ships may not be able to finish the current transfer.

Following successful completion of replenishment, most ships engage in the commonly practiced custom of playing a signature tune over the replenished vessel's PA system as they break away from the supplying vessel

## Underway Replenishment (Continued from Page 14)

### Astern fueling

A rarely used type of replenishment is **astern fueling**. In this method, the receiving ship follows directly behind the supplying ship. The fuel-supplying ship throws a marker buoy into the sea and the receiving ship takes station with it. Then the delivering ship trails a hose in the water that the fuel-receiving ship retrieves and connects to in order to receive fuel. This method is more limited, as only one transfer rig can be set up. However, it is safer, as a slight course error will not cause a collision.

### Vertical replenishment



A third type of Underway Replenishment is **Vertical Replenishment**, or VERTREP. In method, a [helicopter](#)

lifts cargo from the supplying ship and drops it on the receiving ship. The main advantage of this method is that the ships do not need to be close to each other, so there is little risk of collision. However, the maximum load and transfer speeds both are limited by the capacity of the helicopter.

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## Logistics Quotations: (source Logistics World.com – Virtual Library: Logistics)

The supreme excellence is not to win a hundred victories. The supreme excellence is to subdue the armies of your enemies without even having to fight them. - Sun Tzu, *The Art of War*

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A little neglect may breed mischief: for want of a nail the shoe was lost; for want of a shoe the horse was lost; and for want of a horse the rider was lost. - Benjamin Franklin.

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Behind every great leader there was an even greater logistician. - M. Cox

**New Defense Acquisition Guidebook Web Site** (reprinted from Defense AT & L, Mar-Apr 2010)

The Defense Acquisition Guidebook Web site, <<https://dag.dau.mil>>, has been redesigned to provide the acquisition workforce and DAU's industry partners with a more business practices, supporting policies, and lessons learned. The revised DAG content includes the guidance needed to implement the acquisition policy changes in DoD Instruction 5000.02 and additional policy implementing the Weapon Systems Acquisition Reform Act of 2009. New DAG features:

- Redesigned pages that now include more information. The revised presentation improves readability and eases navigation, and users no longer need to view individual paragraphs separately.
- An improved search feature provides more precise search results. It also allows the user to search within the initial results, enabling identification of the most useful information for the task at hand.
- A redesigned Life Cycle Framework view allows the user to quickly determine the information requirements required for each decision event and program type— major defense acquisition programs, major acquisition information systems, and ACAT II and below.
- A Defense Acquisition Portal quick links feature place a wide array of tools at the user's fingertips such as links to additional resources such as the Defense Acquisition Portal (DAP); the Program Manager's Toolkit; the DAUhosted ACQuipedia; and a Best Practices Clearinghouse site.
- A Defense Acquisition News feature, which provides users with information on the latest acquisition news. More timely updates. As new statutes, policies, and direction are introduced, appropriate DAG content changes can be made quickly.

Send any feedback to [guidebook@dau.mil](mailto:guidebook@dau.mil).

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