Fleet Week 2009

The Intrepid Museum will be celebrating the 22nd anniversary of Fleet Week this year from May 20 – 26, 2009, at her home at Pier 86. Fleet Week is America’s premier “Thank You” to the brave men and women of the armed forces who serve our nation.

Hosted by the Intrepid Museum, the City of New York, the U.S. Navy and the Fleet Week executive steering committee, join us for these events at Intrepid (subject to change):

**MAY 21**
**NY Red Bulls Soccer Game** – Watch the players take on the sailors and enjoy other games and trick demonstrations.

**MAY 22**
**U.S. Coast Guard Demonstration** – Be amazed by the U.S. Coast Guard’s precise skills as they demonstrate a “vertical insertion,” fast roping from a helicopter onto the deck of the Intrepid.

“**Stomp**” Performance – Enjoy the musical talent of “Stomp” right here on Pier 86.

**Navy Band North East Performance** – Sing along to “Anchors Aweigh” and other favorites during the Navy Band’s performance on Pier 86.

**MAY 23**
**Crew Competitions** – Join us for Fleet Week favorites, such as Tug-of-War crew competitions and Stern-to-Stern relay races.

“**Wicked**” Performance – Don’t miss this incredible performance by the cast of Broadway’s “Wicked.”

**Search and Rescue Demonstrations** – Be inspired by members of the U.S. Coast Guard’s search and rescue teams as they demonstrate their skills and dedication to saving lives.

**MAY 24**
**USO Troop Performance** – Listen to the beautiful vocalists from the USO Troop perform on Pier 86.

**Best Chow Contest** – Fleet Week’s most “heated” contest! Watch as crews from the visiting ships compete for the title of Best Chow.

**Chasing Corona Performance** – Don’t miss your chance to see rock band (and former sailors) Chasing Corona perform live.

**Navy Band North East Performance** – Another chance to enjoy the Navy Band’s performance on Pier 86.

**MAY 25**
**Memorial Day Ceremony** – Our annual Memorial Day celebration includes a ceremonial wreath laying, a Three volley Salute, the unfurling of a 100-foot American flag and a fly-over of military aircraft in the missing man formation.

**MAY 22-25**
**Military Displays** – Take in the incredible sights and sounds of military displays from all branches of the armed forces on park-like Pier 86.

We are also very excited about the reopening of the Growler, SSG 577, on May 21, 2009. First opened to the public at the Museum in 1989, Growler is the only intact strategic diesel-powered submarine that fired nuclear missiles open to the public anywhere in the world. Constructed in 1958 and on active duty for only six years, Growler never underwent extensive modifications. As a result, its interiors survive as a time capsule from the 1950s and 1960s.

A team of conservators has restored the officers’ quarters and enlisted mess, which are decorated with vintage Formica. Visitors will enjoy a firsthand look at life aboard a guided missile submarine during the Cold War. New viewing walls will guide visitors through the Growler and offer better views of the submarine’s historic spaces, such as the formerly top-secret missile check out and guidance center. Check out the Curator’s Corner in this issue for a full article on the Growler.

**Fleet Week Visiting Ships**

| Manhattan | Staten Island (cont’d) |
| USS Iwo Jima (LHD 7) | USS Hurricane (PC 3) |
| USS Roosevelt (DDG 80) | HMCS Fredericton |
| Staten Island | HMCS Athabaskan |
| USS Vella Gulf (CG 72) | HMCS Preserver |
| USS Thunderbolt (PC 12) | HMCS Montreal |
| USS Tempest (PC 2) | HMCS St. John’s |

For a complete list of all Fleet Week events and special Fleet Week hours, please go to [www.intrepidmuseum.org](http://www.intrepidmuseum.org)
Spring is here and much is in bloom aboard Intrepid: the multimedia, immersive exhibit Kamikaze: Day of Darkness, Day of Light, one of the few exhibits brought back after our restoration, is up and running and has been receiving tremendous feedback, thanks to the fabulous Intrepid Exhibits team. New among our stellar aircraft collection is the T-34 Mentor plane, a gift to the Museum, which is currently gracing our portside aircraft elevator. The aircraft elevator itself is once again fully operational and will soon begin running, allowing Museum guests to travel from the Hangar Deck to the Flight Deck just as Intrepid’s aircraft did when she was in service. And, our Growler submarine will reopen on May 21. Please check our web site for events surrounding the Growler reopening.

It was a pleasure to see so many of you at our Kids Week Member event in February. Kids Week was a great success, with record numbers of visitors. I hope you all enjoyed it as much as we did, and that you will continue to take advantage of the many Member events and Community Connections programs we have been hosting, including this June’s Members Bike Ride.

As always, we welcome your feedback on programs, events and exhibits. Our membership base has continued to blossom thanks to Membership Manager, Christine Goonan, and her team, and we couldn’t be more pleased.

Coming up, Intrepid will once again take center stage, hosting 2009’s Fleet Week, which begins May 20 and runs through May 25. Featured and popular events include the Stem to Stern relay race, Best Chow contest and our annual Memorial Day Ceremony. Once again, please visit our web site for details on a Fleet Week filled with activities.

With Memorial Day comes summer and with the fair weather upon us, we’ll be making good use of our beautiful, brand new park-like pier for a host of wonderful programming. Be sure to stop in and enjoy.

See you aboard soon,

Susan Marenoff
Executive Director
In anticipation of the reopening, I am pleased to reintroduce the Growler and offer an overview of her brief but important history in the U.S. Navy during the Cold War.

During World War II, submarines primarily served in an attack role, sinking warships and merchant vessels. By the 1950s, submarines were at the forefront of a new defense strategy. Submarines armed with nuclear missiles would patrol near Russian territory, thereby deterring the enemy from launching an attack on the United States. The former USS Growler (SSG-577) was one of these early guided missile submarines.

The Growler was under construction as an attack submarine when the Navy ordered that she be redesigned as a guided missile submarine. She was cut in two on the slip to make room for a new bow section with bulbous missile hangars that could hold a total of four Regulus I nuclear missiles. A missile checkout and guidance center, as well as a turntable launcher, allowed the Growler to launch and guide Regulus missiles. With these modifications complete, the Growler was commissioned at Portsmouth Naval Shipyard in Kittery, Maine, on August 30, 1958. A year later, the Growler traveled to Pearl Harbor to join the four other Regulus missile submarines as part of Submarine Squadron 1. Between 1960 and 1964, the Growler conducted numerous strategic deterrent patrols in the western Pacific, each of which lasted about two months.

The Growler’s highly trained crew of 88 men operated complex equipment while enduring difficult living conditions. Enlisted crew members had very little privacy or storage space, and officers shared tiny staterooms. Fresh water was at a premium, so showers were rare. The Growler’s cooks learned to work wonders with frozen, dried and canned food products. In addition to their regular duties, the Growler’s highly trained crew of 88 men operated complex equipment while enduring difficult living conditions. Enlisted crew members had very little privacy or storage space, and officers shared tiny staterooms. Fresh water was at a premium, so showers were rare. The Growler’s cooks learned to work wonders with frozen, dried and canned food products. In addition to their regular duties,

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The Growler has been fully restored and will be open to the public for tours, beginning May 21, and her peers. Regulus missile submarines had to surface to launch their missiles, leaving them vulnerable to detection. The Growler’s diesel-electric propulsion system also required her to surface periodically, unlike nuclear-powered boats that could remain submerged for the duration of a patrol. In July 1960, the nuclear-powered submarine George Washington (SSBN-598) launched a Polaris ballistic missile while submerged.

The Growler was decommissioned on May 25, 1964. She was placed in the inactive reserve fleet and was scheduled to be destroyed as a torpedo test target. Through an act of Congress, the Growler joined the Intrepid Sea, Air & Space Museum in 1989.

Unlike the Intrepid, the Growler had a relatively short Navy career – just six years – and underwent few modifications. As a result, the Growler’s interior survives largely intact from the Cold War 1950s and 1960s. Visitors will see the formerly “top secret” missile command center, as well as the control room, sonar room, engine room and other compartments vital to the Growler’s strategic mission. Living spaces, including enlisted and officer berthing and mess areas, offer a firsthand glimpse at life aboard a submarine during the Cold War.

My colleagues and I are thrilled to have the opportunity to return the Growler to service here at the Intrepid Museum. We hope that you will visit us and experience this important piece of Cold War history.

Questions? Call 646-381-5030.
The Medal of honor was authorized by President Abraham Lincoln in 1861, and first presented on March 25, 1863. Of the more than 34 million soldiers, sailors, airmen and marines who have served in our armed forces to date, only 3,467 soldiers, sailors, airmen and marines who have received the Medal of honor, many of them posthumously. Today, there are 98 living recipients. To learn more about the Pritzker Military Library’s Medal of Honor series, please visit www.pritzkermilitarylibrary.org

To learn more about the Pritzker Military Library’s exhibits and programs, please call 646-381-5273 or email support@intrepidmuseum.org
Education Update

What a Year! And, Looking Ahead.

By Sheri Levinsky, Assistant Vice President of Education

The education department is excited to announce that Camp Intrepid is back and better than ever this summer!

Offering eight weeks full of activities throughout July and August, campers joining us for one, two, three or more weeks are sure to have a blast while discovering all about sea, air and space.

We will investigate newly renovated areas of the ship, participate in Flight Deck games and Pier Challenges, take rides on the Circle Line’s speed boat, “The Beast,” and spend beautiful summer days at the Intrepid exploring, discovering and learning.

Every week we strive to inspire our campers. Themed weeks include:

- **Intrepid Inventors** - campers design their own creations
- **Life Aboard Intrepid** - discovering what it was like to live aboard Intrepid
- **Drop Anchor with the Intrepid** - exploring some of the places around the world where Intrepid traveled
- **Marine Mayhem** - investigating water and what creatures live beneath us in the Hudson River
- **Our Universe** - solar cooking and navigating by the stars
- **Up, Up and Away** - discovering how planes fly and designing their own aircraft
- **Underwater Archaeology** - exploring ocean environments and seeking buried treasure
- **Mission Intrepid** - a little of everything

Registration for Camp Intrepid has begun. Members receive a 10% discount, so sign up now for one or multi-week sessions.

**More Exciting News**

Another exciting experience this summer is our new Camp G.O.A.L.S. (Greater Opportunities Advancing Leadership and Science) for Girls!

The mission of Camp G.O.A.L.S. is to increase awareness of math and science for middle school students and includes full days of on-ship activities, visits to partnering New York science institutions, and opportunities to meet with women scientists and community professionals. Highlights include programs at the Cradle of Aviation Museum, a hands-on marine science workshop with the New York Restoration Project, and a 3-hour sail on the Pioneer with the South Street Seaport Museum. Supported by the Motorola Foundation, this four-week science centric program immerses 40 young women entering 7th and 8th grades from New York City in the exploration of aviation, inventions, water and space.

Reflecting on this past school year’s myriad of programs, we project record attendance! Our science and history themed tours and workshops for students in K-12 have been reserved to capacity since our reopening in November, bringing our total student participation through June to approximately 15,000. We are already taking tour and workshop requests for the next school year!

Thanks to the generous support from the Department of Cultural Affairs, the American Honda Foundation, Con Edison, the TD Bank Charitable Foundation, and the Ambrose Monell Foundation, 40% of this past school year’s tours and workshops were funded for New York City Public School students. Comments from teachers include: “it was a good workshop,” “it was very informative and presented on their grade level,” and “the students enjoyed it.”

In addition to this success, we welcomed more than 1,100 students to our Power of One, eminent speakers program this school year. In this inspiring program, students have the opportunity to hear from dynamic speakers about overcoming struggles and striving for success. This year’s speakers have included Tuskegee Airman Dr. Roscoe Brown; NY1’s Dominic Carter; Olympians representing such sports as soccer, luge, and boxing; and astronaut Scott Carpenter. After a recent program at which NY1’s Dominic Carter spoke, a high school student reflected on his experience and wrote to us that, “He inspired me to not settle for less and that hard work pays off. Lastly, that anything is possible. I can expect better of myself for the future.”

To find out more about our programs, visit http://www.intrepidmuseum.org/education.aspx or email educationprograms@intrepidmuseum.org

Questions? Call 646-381-5030.
A New Aircraft has Joined the Collection:  
the T-34 Mentor  

By Eric Boehm, Manager of Aircraft Restoration

At the end of World War II, the Beech Aircraft Company retooled their assembly lines to create commercial and general aviation airplanes, as did a number of aircraft manufacturers at that time.

Perhaps the most famous of these is their v-tailed Model 35 Bonanza which first flew December 22, 1945, and went into full production in 1947. Its all-metal construction, retractable landing gear and fighter-like performance at speeds of almost 200 miles per hour, made the plane a popular one for the luxury general aviation market. As of 2009, a Bonanza derivative is still being produced by Hawker Beechcraft, making it the longest-running production airplane in history. More than 17,000 Bonanzas of all variants have been built. The T-34 is a military training aircraft developed from Beechcraft’s experience with the Bonanza.

Three initial design concepts were developed for the military version, including one with the Bonanza’s signature V-tail, but the final design that emerged in 1948 incorporated conventional tail control surfaces, appeasing the sensibilities of the more conservative military. The Bonanza’s fuselage with its four-passenger cabin was replaced with a narrower fuselage, incorporating a two-seater tandem cockpit and bubble canopy, which provided greater visibility for the trainee pilot and flight instructor.

The Mentor first flew in 1948, and the military prototype, designated YT-34, first flew in 1950. After competitive testing, the Air Force ordered 450 T-34A’s in 1953. In 1954, the Navy began receiving their order of 423 T-34B trainers, which had a more powerful engine. The Navy upgraded their basic training to incorporate 353 T-34C turboprop versions in 1978, and Mentors were license-built in Japan as the Fuji T-3.

Although the Air Force began to replace their T-34s with Cessna T-37 jet trainers in the late 1950s, the Navy’s T-34Bs, and then Cs, continued to serve as basic trainers until 2002, when they began to replace them with Hawker Beechcraft T-6A Texans, a license-built variant of a Swiss, Pilatus turboprop trainer. Overall, more than 1,300 Mentors were built and trained military pilots from 10 countries, as well as many American military jet pilots, began their careers in the Mentor.

“Its all-metal construction, retractable landing gear and fighter-like performance at speeds of almost 200 miles per hour, made the plane a popular one for the luxury general aviation market.”

This new addition, a gift of the Taylor Family in memory and honor of Thomas M. Taylor (1942-2006), could not have been timelier. Shortly after our reopening, it was decided that...
an interesting feature of the ship should be brought back to life. This feature is the aircraft elevator. The ship had three large elevators: one is located forward in the middle of the deck is now replaced with the Lutnick Theater; and two edge elevators, and the port side unit showed the best promise for repair. Through generous contributions from the Otis Elevator Company, the Disabled American Veterans, and especially Mr. Jack Rudin, Chairman of Rudin Management, this elevator is once again fully functional.

The aircraft will enhance Intrepid programs in two ways. First, it will be the main point of attraction this summer when we inaugurate the recently repaired aircraft elevator. The aircraft will be placed on the elevator and visitors will be invited to ride along between the Hangar and Flight Decks. This will demonstrate the process in which aircraft were moved during the ships operational life. The second, and possibly the most exciting, is the Camp Intrepid program. During eight separate week-long sessions, 20 to 50 day campers will have an instructional block on aircraft flight controls and basic aerodynamics. The T-34 will be the center of learning for this!

“During Camp Intrepid . . . the T-34 will be the center of learning and instruction on aircraft flight controls and basic aerodynamics.”

T-34 Mentor is placed on its new home – Intrepid’s newly operational aircraft elevator.
Learn abbreviations, conversions and fun facts about the Intrepid!
Using the information below, calculate the answers to the following questions:

1 knot = 1.15 miles per hour (mph)
1 knot = 1.85 kilometers per hour (km/h)
1 mile = 1.61 kilometer (km)
1 ton = 2,000 pounds (lb)
1 ton = 907 kilograms (kg)
1 mile = 1,609.34 meters (m)
1 m = 3.28 feet (ft)
1 yard (yd) = 0.91 m
1 km = 1000 m
1 gallon = 3.79 liters (L)
1 gallon = 231 in³
1 fluid ounce (fl oz) = 1/128 of a gallon
New York to London = 3471 miles
Square units = ²
Cubic units = ³

Time:
1. The Growler weighs 2,768 tons, is 317 feet long, and can reach a speed of 12 knots, or _________ mph, submerged and 19 knots, or _________ km/h, surfaced.

2. The British Airways Concorde set the world’s speed record for passenger airliners on February 7, 1996 when it flew from New York to London in 2 hours, 52 minutes and 59 seconds. What was Concorde’s approximate average speed? _________ mph or _________ km/h

Distance:
3. During the Intrepid’s refurbishment, 2 miles or _________ m or _________ yd of electrical cable was installed.

4. The Intrepid is 912 feet long. If a sailor wanted to go for a five mile jog, how many laps would he have to make? _________

Volume:
5. 7,000 gallons of paint were used to repaint the Intrepid during its dry dock. This is approximately _________ L or _________ m³ or _________ fl oz.

6. The Growler has a displacement of 3,500 tons when submerged. The Intrepid has a full load displacement 41,434 tons. The displacement of the Growler is approximately _________ percent of the Intrepid’s?

Weight:
7. The Intrepid had four propellers; two outboard and two inboard. Each outboard propeller weighed 27,000 pounds and each inboard propeller weighed 24,339 pounds. All together the propellers weighed _________ lbs. or _________ tons.

8. During the recent renovation, 1,200 tons of steel were removed from the Intrepid. This is approximately _________ lbs.

9. The average dinner aboard the Intrepid required 3.5 tons of food. If there were 3,388 soldiers having dinner, how much food did each soldier eat? _________ lbs.

Area:
10. It took two years to rebuild Pier 86, now 112,000 feet². This is approximately _________ m² or _________ yd². During this time 95,000 yd³ or _________ m³ of material was dredged from around Pier 86.

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**SCUTTLEBUTT**

**Q:** The Growler was commissioned in 1958, making it one of our nation’s earliest nuclear submarines, but the history of its name dates back to early American history. Which war does the Growler name date back to, and who did we defeat in that war?

You can enter to win an Intrepid Museum tote bag. Send your answer to membership@intrepidmuseum.org or by mail to: Intrepid Sea, Air & Space Museum: Membership Department/Scuttlebutt 12th Avenue and 46th Street, New York, NY 10036. Please include your name, address, telephone number and email address with your answer. One (1) winner will be notified. All answers must be received by June 19, 2009, at 9:00 am EST.

**EVENT LOG**

Join us for these upcoming events:

- May 18 – Transporter FX Simulator Opens
- May 20 - 26 – Fleet Week
- May 21 – Growler Submarine Opens
- June 7 – Members Bike Ride
- June 14 – Flag Day Celebration
- July 18 – 19 - Firefighter Appreciation Weekend

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**INTERACTIVITIES**

**IN**teractivities

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**ANSWERS:**

1. 13.8 / 35
2. 1,203.8 / 1,938
3. 3,219 / 3,520
4. 14.5
5. 26,530 / 1,617,000 / 896,000
6. 8.4
7. 102,678 / 3,520
8. 2,400,000
9. 2
10. 34,146 / 37,523 / 86,450