

Silver News

- American Eagle Silver Bullion Coin Sales Smash All-Time Record
- Silver Allows Field Testing of Infectious Diseases Quickly and Cheaply
- New Government-Built Miner's Lamp Improves Underground Safety
- Silver Promotion Service Supports "Miracle on Madison Avenue"
- Silver Ion Paper Introduced
- Sunken Ship Holding 600,000 Ounces of Silver Found Off Ireland
- Don't Like to Wear Socks? Try Silver Linings
- Nepal Exchange Offers Nano Silver Contract
- Industry News

American Eagle Silver Bullion Coin Sales Smash All-Time Record

Global Coin Sales May Reach New Height



U.S. MINT

The U.S. Mint is issuing this silver coin set to mark the 25th anniversary of the American Eagle coin.

Sales of American Eagle Silver Bullion coins broke the all-time sales record of 34,662,500 set in 2010 with current sales exceeding 35 million in early October.

Monthly sales are averaging 3.7 million, and if the pace continues until year's end, total sales could top 44 million for 2011. Traditionally, November and December are strong months for gold and silver bullion coin sales as consumers buy them as presents for the holiday season.

To commemorate the 25th anniversary of the American Silver Eagle, the United States Mint has issued the American Eagle 25th Anniversary Silver Coin Set.

The set will include five, one-ounce .999 fine silver coins from three different mints.

The coins are:

- one proof coin from the United States Mint at West Point
- one uncirculated coin from the United States Mint at West Point
- one uncirculated coin from the United States Mint at San Francisco
- one reverse proof coin (frosted background with polished, mirror-like design elements/foreground) from the United States Mint at Philadelphia
- one American Eagle bullion coin

Each set, priced at \$299.95, will include a certificate of authenticity within a specially-designed U.S. Mint presentation case. Customers may order up to five sets per household as the Mint will only produce 100,000 sets.

Globally, silver bullion coin sales are up 40 percent so far this year compared to 2010 and should set a new sales record, according to Thomson Reuters GFMS.

Silver Allows Field Testing of Infectious Diseases Quickly and Cheaply

Credit Card-Size “mChip” Device Ideal for Remote Areas

Cheap, effective and fast laboratory testing for diseases in remote areas has always been a dream of doctors and health care professionals. Now, a team of international scientists led by Samuel Sia, associate professor of Biomedical Engineering at Columbia University in New York City, have produced and tested a credit card size testing device that can detect HIV and syphilis quickly and at low cost.

The device known as the microfluidic chip, or mChip, requires just one microlitre of blood to detect specific diseases with accuracy that rivals laboratory assays but at a significantly lower cost and in about 20 minutes. It was successfully tested in remote areas of Rwanda.



(Click to Play)

The mChip’s design is simple. It consists of a host of tiny plastic tubes imbedded on the card that carries blood around in meandering loops. Each ‘detection’ zone is coated with ‘capture proteins’ that bind to antibodies contained in various disease organisms. When these antibodies adhere to the proteins, reagents also carried in the loops stick as well and form an ‘immunosandwich’ comprised of reduced silver ions stuck to gold nanoparticles. The thickness of the silver film that ultimately forms is struck by light - either manmade or sunlight – and the amount of light reflected back indicates the amount of pathogens in the sample. The sample is either positive or negative depending upon the color produced by the reflected light. The test can be read by the naked eye and does not require special training.

The cost of an entire test card including reagents will cost only a few dollars to produce, Sia said.

New Government-Built Miner’s Lamp Improves Underground Safety

To improve safety in mines, the venerable miner’s lamp – which in its earliest years burned oil to produce light - is getting an upgrade with programmable-type LEDs, Light Emitting Diodes that offer strong light, produce no heat and use little power.

Underground mines, including silver mines, are the most difficult environment to illuminate, according to the Illuminating Engineering Society of North America. Illumination greatly affects miners’ ability to perform their jobs safely. Typically, a miner’s cap lamp is the primary and most important source of light.

The National Institute for Occupational Safety and Health (NIOSH) has built a [LED cap lamp design](#) that it says improves worker safety by better distributing light using specialized, programmable optics. This helps workers see the immediate hazards in their surroundings more easily.

Test results comparing the NIOSH cap lamp to commercially available LED cap lamps show detection time improvements of up to 194 percent in floor hazard detection and up to 79 percent in peripheral motion detection, and as much as 54 percent reduction in disability glare.

NIOSH expects that workers in other industries and sectors such as military, security and search and rescue will benefit from the LED cap lamp.



NIOSH

This LED miner’s cap lamp can make mining safer

Silver Promotion Service Supports “Miracle on Madison Avenue” to Benefit Child Health Care

The Silver Institute’s Silver Promotion Service (SPS) has appointed [Della Femina/Rothschild/Jeary & Partners](#) to help brand anything having to do with 25 as a ‘silver event’-- a 25th birthday or 25th reunion, for example – to spotlight the 25th anniversary of ‘The Miracle on Madison’ event on December 4.

The Miracle on Madison Avenue is a New York City holiday tradition that brings together shoppers, retailers and sponsors to help children who depend upon the health care services of The Children’s Aid Society. Nearly 100 retailers on Madison Avenue between 57th and 86th streets will donate 20 percent of the day’s sales to charity.

“Silver has always been synonymous with 25th anniversaries and we’re trying to leverage that connection,” said Michael Barlerin, SPS director. “I couldn’t be happier about the opportunity to be working again with Jerry Della.. In these exceptional times for silver, we have a unique opportunity and we want to maximize it.”

Della Femina’s book *From Those Wonderful Folks Who Gave You Pearl Harbor: Front Line Dispatches from the Advertising War*, published in 1969, was cited as a key inspiration for the hit television show *Mad Men* which airs on the AMC network.

Silver Ion Paper Introduced

Paper producer [Gmund GmbH & Co.](#) has introduced *Gmund 925*, a product made with a mixture of silver ions giving the paper the shiny look and elegance of the precious metal.

Company officials say the paper is aimed at makers of jewelry, high-end clothing, automobiles and electronic devices who want to present distinctive and elegant brochures, packaging or cards. *Gmund 925* comes in different colors including ‘White Silver,’ ‘Light Silver,’ ‘Silver Pigments’ and ‘Aqua Silver,’ the latter offering a turquoise tone that conveys the coldness of steel with the softness of silk. Aqua Silver, Silver Pigments and Black Silver are two-sided metallic papers. All colors come in papers weighing 290 or 310 grams per square meter except for ‘Light Silver’ which weighs 145 grams per square meter. Matching envelopes are also available.

Gmund 925 can be printed upon using standard printing techniques.



Gmund 925 paper is made with silver ions

GMUND

Sunken Ship Holding 600,000 Ounces of Silver Found Off Ireland

The *SS Mantola*, torpedoed by a German submarine in 1917, has been discovered in 8,000 feet of water just off the southwest coast of Ireland. The sunken ship is estimated to be holding more than 600,000 ounces of silver.

The British steamer *Mantola* had left London on February 4, 1917, heading for Calcutta with a crew of 165 people and 18 passengers and general cargo. Torpedoed on February 8 by the German submarine *U-81*, it sank the following day despite attempts to tow it. Seven people died when their lifeboat capsized.

US salvors [Odyssey Marine Explorations](#), operating under a contract from the UK Department of Transport, will recover the *Mantola* which is about 300 miles off the coast of Ireland. Salvage operations are expected to begin next spring, according to company officials.



The *SS Mantola* held 660,000 ounces of silver when it sunk off Ireland

Don't Like to Wear Socks? Try Silver Linings

[Silver Linings](#) shoe liners are designed for women who wear shoes without socks, because the silver acts as an antibacterial agent to keep feet odor free, according to the company, Silver Linings by Chu Shu. The active silver ion agent is [Agion](#) antibacterial, which is an EPA-registered ionic silver technology.

Silver Linings have an anti-slip layer that keeps it in place without an adhesive. Each pair lasts about a month and cost \$16 for a pack containing three pair. They come in one-half shoe length size (one size fits all) so they provide coverage for the forefoot area, where most of the moisture and sweat reside. The pads are also absorbent to soak up sweat and moisture.



CHU SHU

Silver Linings keep feet dry and odor free

Nepal Exchange Offers Nano Silver Contract

The [Nepal Spot Exchange](#) in Katmandu has introduced a 25 gram silver contract called *Nano Silver*. According to the NSE, the initial margin requirement of the contract will be nine percent and the tick size of the contract will be 0.25 per gram. The exchange already has a *Major Silver* contract of 30 kilograms of silver and a *Minor Silver* contract of 5 kilograms.

The NSE is an online commodity spot exchange marketplace established in 2010. In addition to silver and gold, the NSE also offers trading in agricultural products such as cardamom, maize, lentils, rice and wheat.

Industry News

Ferro Introduces New Silver Pastes to Improve Solar Cell Efficiency at Lower Cost

Ferro Electronic Materials introduced more than a dozen metallization pastes at the recent 26th European Photovoltaic Solar Energy Conference and Exhibition (PVSEC) in Hamburg, Germany. The new products make solar energy more cost competitive by providing higher electrical efficiencies and/or reducing material usage, according to company officials.

Several of the pastes are silver-based including:

- *Double Print Front Silver Contact Pastes* that enable printing of taller, narrower grid lines that boost conductivity.
- *High Efficiency Front Silver Contact Pastes* that provide up to 20 percent savings on material usage and 0.40 percent absolute gains in electrical efficiency.
- *Low Temperature Silver Materials for Solar Cells* that improve electrical conductivity and printability in thin film, module, and next-generation cell architecture applications

“We’re helping our customers reduce their production cost per Watt,” said Jeff Edel, Global Business director of Ferro’s electronic materials business. “We received a very positive response from cell manufacturers at the PVSEC. Across a wide variety of specific customer applications, our solutions drew strong interest.”

Larry Kahaner
Editor

www.silverinstitute.org

THE
SILVERINSTITUTE

888 16th St. NW Suite 303
Washington, DC 20006
T 202.835 0185
F 202.835 0155