



## ARTISAN



### ART AND CRAFT: The World of Itay Noy

Itay Noy's timepieces not only to tell time but have a philosophical basis. In 2010 his work went on sale in galleries and shops abroad.

"Unlike an iPhone or some other product, my watches are forever," he says. "They have no battery; they have a spring that has to be wound... some only have to be on your wrist and they wind automatically."

"Most of the objects around you won't survive," he says. But he intends his work to stand the test of time.

[Click to learn more](#)

## MOST EXPENSIVE CLOCK IN THE WORLD SELLS AT AUCTION



Photo: Sotheby's

**The Duc d'Orleans**

Dear NAWCC Member,

This month we discuss the mystery of lost astronomical clocks and the sad theft of wonderful timepieces (both public and private). We explore horology in the tiny world of subatomic and bacterial science and notice that a Hamilton watch helps an action hero count down the seconds to doomsday.

Enjoy!

## Famous Astronomical Clocks Still Missing: The Mystery Continues

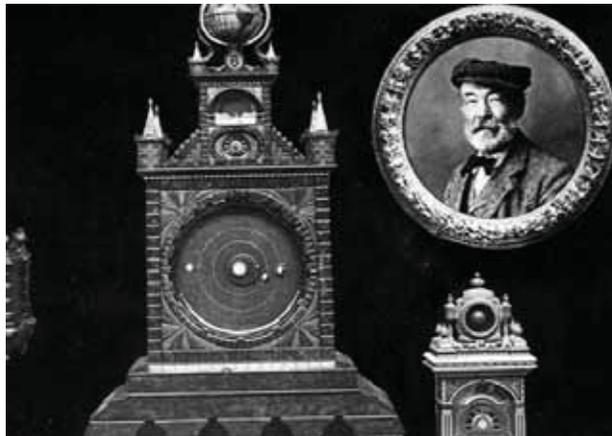


Photo: Southern Reporter UK

Mystery still surrounds the fate of four clocks created over 100 years ago by the amazing "mason astronomer" James Scott. The self-taught astronomer and mathematical genius was born in 1844 and built a total of five clocks that showed the movements of the moon, sun, and planets.

Scott, a mason by trade, was fascinated from an early age by clocks and their mechanisms. He determined that his knowledge of clocks and passion for astronomy might enable him to create a machine imitating the movements of the solar system so that regardless of time of day or season he could see at a glance where the moon would be, or Jupiter, Saturn, Mars, Venus, or Mercury.

It took five years of hard work to create the "Great Clock," which stood 8 ft. high and 5 ft. wide at the base. Scott later became so interested in Jupiter and its moons that he also created the "Jupiter Clock," devoted entirely to their movement.

His third clock, the "Equation of Time" machine, displayed the difference between solar time and Greenwich mean time.

His fourth clock, the "Earth Clock," focused on Earth time and includes an integral calendar that shows any date, the sun's position, and the advancing position of night and day around the globe. It also makes clear why night and day are equal at the spring and autumn equinoxes and why the length of day or night increases or decreases as the Sun moves north or south. The globe rotates to show the path of the Sun around the Earth on any date and time anywhere on Earth when it is noon at Greenwich.

**Breguet Sympathique clock** was auctioned at Sotheby's for a record \$6,802,500 last

December. The clock, a unique ormolu-mounted, red tortoiseshell, boudoir-style, Royal Sympathique quarter-striking clock and half and quarter-repeating gold watch, dates to 1835. Named for its patron, it has the most complex Sympathique mechanism known: for example, it winds, sets, and regulates the accompanying pocket watch via a cradle mounted on the clock pediment. The clock was formerly in the collection of the Time Museum in Rockford, IL.

### NAWCC SUPPORTER FEATURED IN PBS PROGRAM



Photo: ProClocks

**ProClocks, Inc.** was recently featured on the PBS television program **Antique Warriors**, where they displayed the largest ProClocks **Cuckoo Trumpeter Clock** in the USA.

### PA Auction Unclaimed Property: Watches, Clocks

The Pennsylvania State Treasury Department is selling \$300,000 worth of unclaimed valuables.

Morphy Auctions in Denver, PA, will conduct the live auction Feb. 8

The fifth and final clock made by Scott was a timepiece, pure and simple, with only two wheels. Mr. Scott was an inventor/genius with a remarkable aptitude for mechanics; his clocks reputedly kept near perfect time.

After Scott died in 1928, the five clocks were entrusted to Selkirk's Town Council and were displayed for many years in the Scottish Royal Burgh's Town Hall. About 1975 the clocks vanished.

Rumors abounded that Scott's monumental works had been stolen and sold to foreign collectors or were buried when the roof above the cellar in which they were stored collapsed. One source claimed the clocks were stored in a "black shed" that was then demolished as an eyesore and its contents disposed of as scrap.

Fortunately, Scott's third clock, the Equation of Time machine, was recently found in storage at the Scottish Borders Council Museum service headquarters.

The location of his other four clocks remains a mystery.

## WORLD'S TINIEST TIMEPIECE: A SINGLE ATOM



Photo: Denis Vrublevski

Physicists at the University of California at Berkeley, intent upon reducing horology to its simplest forms, have utilized matter-wave theory and a split cesium atom to calculate the oscillation of the original atom, creating a single-atom clock.

This remarkable feat of quantum horology could be a new way to make highly accurate measurements of atomic mass.

'We wanted to see if it is possible to measure time with just one particle and nothing else,' said Holger Müller, the scientist who led the clock-making research.

Relativity and quantum mechanics dictate that any single massive particle has its own innate frequency, termed the Compton frequency. Müller's team constructed a device called a Ramsey-Bordé atom interferometer, which super-cools cesium atoms and then hits them with short pulses of laser energy. This produces an interference pattern that can be linked to an oscillator, revealing the output of time fluctuations, as in a clock.

The resulting one-atom clock isn't fantastically accurate by today's atomic clock standards; it loses around one second every eight years. But it's definitely the most accurate clock of its size!

## WOMAN SELLS COMATOSE COLLECTOR'S CLOCK COLLECTION

and 9 at the auction house's office, beginning at 10 a.m. each day.

The Treasury Department usually sells such unclaimed property via its eBay auction site. Because of the rare and precious nature of these 250 to 350 lots, this time an auction house was contacted to handle the sale.

Items include bags of silver coins, bars of precious metals, antique and vintage clocks, and 1,500 watches and timepieces by Rolex and other makers.

[Click HERE for more information](#)

### NAWCC APPRAISAL COURSES

The **NAWCC** offers **ISA**-rated Watch and Clock **Appraisal Courses**.

**Clock Course** Dates:  
April 26-May 1

**Watch Course** Dates:  
April 19-24

Click [HERE](#) to learn more!

### MEMBER RECRUITMENT INCENTIVE PROGRAM

**Current members: recruit a new member and receive a \$35 voucher that can be applied to next year's dues!** The voucher must be submitted when paying next year's dues or members can call toll free 1-877-255-1849 to redeem (voucher cannot be submitted online). The recruited member cannot have been a prior member. If the new regular member joins online or mails their application, they must complete the "referred



Phillip Paguio. Photo: Channel 10 News Sacramento

The alleged girlfriend of a Sacramento, CA, local celebrity clock repairman and collector sold his lifetime collection of thousands of clocks while he lay in a coma following a car accident (Mr. Paguio never regained consciousness, succumbing to his injuries. He passed away on January 31).

Phillip Paguio, 60, otherwise known as "Dr. Time," was involved in a severe automobile accident in Montana last week. Paguio had been a regular guest on local Sacramento television in the spring and fall of 2012. He would discuss such topics as Daylight Saving Time and the more than 4,000 clocks in his collection.

While Paguio was in a medically induced coma in an Idaho Falls hospital, his self-identified "girlfriend" and housemate, Julie Wilson, immediately sold his entire collection for \$3,500, intending to spend the money paying for expenses "unrelated to Paguio's hospitalization," but asserting that her injured boyfriend "would understand." Allegedly she later admitted on the record that she had no right to dispose of the collection.

The clocks were purchased in bulk by a Sacramento antiques dealer, who reportedly hauled five truckloads of clocks from Paguio's home. When the purchaser learned the circumstances behind the sale he agreed to hold the clocks in storage for the time being.

"This is a man's life collection, so why should we do anything else but the right thing?" he said. "We're going to hold onto all of this stuff, and we wish him the best." The Idaho Falls Police Department has allegedly opened an investigation into the incident. Police spokesmen report that hospital staff were never able to speak directly to Paguio; they contacted Wilson because they couldn't locate any other family members. "The more we look into it, the more we believe she's not competent to make decisions for him," the spokesman said. Mr. Paguio's untimely death is expected to complicate the matter considerably.

## EPIDEMIOLOGISTS FIGHT FLU BY RESETTING ITS CLOCK

by" field for the recruiting member to benefit from this incentive (cannot be used in conjunction with a gift membership, limit one voucher per year).

## NAWCC Conservation Seminar

**"Preservation of  
Clock Mechanisms and  
Their Cases"**

**May 2-4, 2013**

Location: NAWCC  
campus in Columbia, PA.

4 days of lectures,  
hands-on demonstration,  
and discussion.

*Early registration rates  
available until **March 18.***

[Click HERE to learn  
more.](#)

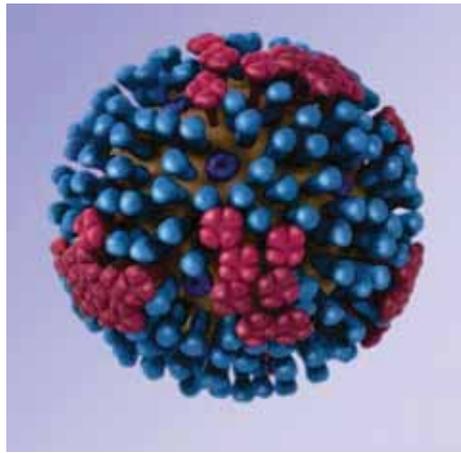
## Global Watch & Clock Industry Report Released

An extensive market  
research report, "**Global  
Watches and Clocks  
Industry,**" is now  
available in the  
*Reportlinker* catalog,  
providing statistics,  
market briefs, research  
summaries, an overview  
of the industry's trends  
and demands, and  
regional abstracts.  
Included is a directory  
listing of 234 companies  
worldwide.

Report size: 108 pages  
Report price: \$ 1,995

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The Influenza Virus

The influenza virus knows precisely how long it has to invade our cells and spread to other humans. New treatments are being explored to fight the virus by resetting its internal clock!

Researches have recently determined that the flu virus has a potential weakness scientists may soon be able to exploit. Influenza choreographs its actions according to a strict time schedule. If new vaccines can reset the virus's internal clock, the human immune system might be able to fight it more effectively.

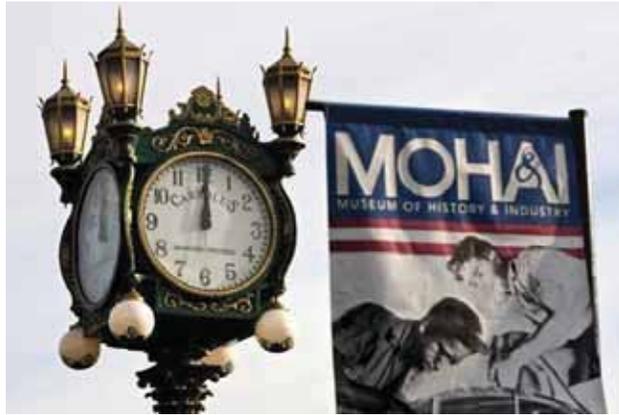
Influenza invades a victim and multiplies in the bloodstream of the host. The cells of an infected host have warning systems to detect this invasion and fight it, but that takes time. The attacking virus must orchestrate its actions according to a strict timetable-if it moves too fast, it won't have time to multiply, but if it moves too slowly, it will be stopped by immune defenses. Researchers at Mount Sinai's Icahn School of Medicine have determined that the influenza virus has a mechanism regulating the amount of time it has to hijack a cell before "tripping" the victim's immune system "alarm."

Benjamin tenOever, a microbiology professor at Mount Sinai who is leading this research, has ascertained that the virus slowly gathers the proteins it needs to make its exit, before exiting the cell in the nick of time to repeat the process, causing more biological havoc.

tenOever and his fellow researchers have tricked the virus by altering the amount of time it takes to gather those proteins. Acquiring the proteins too quickly causes the flu to leave the cell before it multiplies. If the virus stays too long, immune cells have enough time to respond and kill the virus before it escapes.

New flu vaccines and antiviral drugs might directly target influenza's internal protein clock, resulting in a treatment that confuses the virus by forcing it to lose track of time, eliminating the need for a vaccine to trigger our bodies to defend itself ahead of time and literally running out the clock on the pernicious virus.

## THIEVES GUT HISTORIC CLOCK AT SEATTLE MUSEUM



(Photo: Seattle MOHA)

Did the Grinch steal the clockworks from the historic Carroll's clock at the Museum of History & Industry in Seattle?

Over Christmas weekend late last year someone stole the inner works of the historic Carroll's 4-ton street clock, which had been donated to the Museum and erected on Museum property. An investigation revealed that the thieves first tried to pry off the back of the clock. When that didn't work, they instead tore open the front of the clock and cut the metal that holds the clockworks in place, stealing the movement and the 3-foot pendulum.

Authorities are uncertain whether the thieves sought to steal the clockworks or if they simply sought the heavy brass parts for sale as scrap (there have been many metal thefts in the area over the past year).

The 15-foot landmark clock was originally built in 1913 by Joseph Mayer, a Seattle jeweler who fabricated many of the clocks displayed on Seattle streets. It was installed in front of Carroll's Jewelry Store in 1915. One of only nine historic clocks remaining in Seattle, the clock stood at the junction of Fourth Avenue and Pike Street, where owner Herbert Carroll wound the clock himself every Monday morning. When the store went out of business, the Carrolls donated the clock to the Museum, where it was installed in August 2008.

Pete Sorensen, a retired metal-shop instructor who has repaired the Carroll's clock and other Seattle street clocks in the past, has offered to inspect what's left of the clock, although he admitted that in any 100-year-old clock the inner workings are odd-sized and difficult to replace. Without a pattern, it would be extremely hard to make replacement parts. The clock movement could be replaced with an electric motor, but that would diminish its historical nature.

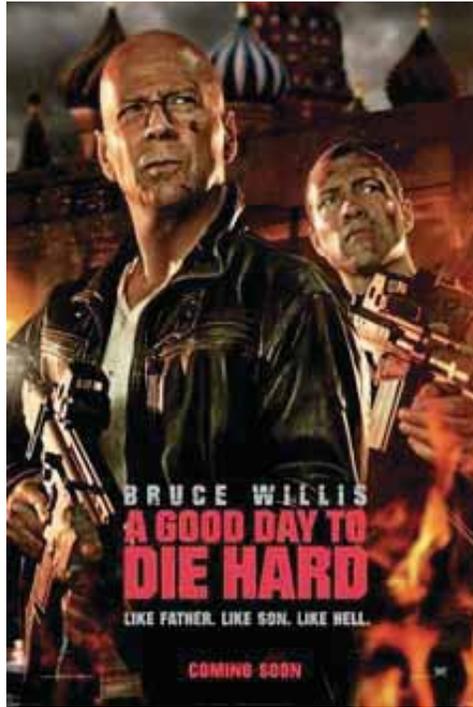
Investigators doubt the clock was defaced merely for the near-negligible metal value of its interior parts (only a few pounds of brass). It is instead believed that thieves specifically targeted the clock movement, because the pendulum was taken.

The theft is being investigated by Seattle police, who continue to monitor online sites like eBay in case any of the parts show up for sale.

## Horology in the Media

### FILM

### A GOOD DAY TO DIE HARD



(Photo: 20th Century Fox)

## HAMILTON WATCH EQUIPS ACTION HERO BRUCE WILLIS WITH DIE HARD HOROLOGICAL GEAR FOR LATEST ADVENTURE

Hamilton Watch once again shares the action-packed spotlight with blockbuster action star Bruce Willis in 20th Century Fox's *A Good Day to Die Hard*. Willis' iconic character, John McClane, formerly wore a Hamilton timepiece in the previous *Die Hard* film, *Live Free or Die Hard*. In his latest outing, McClane-- this time wearing a classic Jazzmaster Viewmatic wristwatch-- travels to Moscow to help his estranged son, Jack, and finds himself in the wrong place at the wrong time. With the Russian underworld in pursuit, battling a countdown to war, the two McClanes-- father and son--find themselves in a race against the clock to stop an unexpected threat.

Hamilton has created a tradition of integrating its signature styles with epic storylines in many Hollywood blockbusters, including Stanley Kubrick's futuristic *2001: A Space Odyssey* and sci-fi stand-outs *I Am Legend* and the fan-favorite *Men In Black* trilogy.

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