



# North York Coin Club

Founded 1960

MONTHLY MEETINGS 4TH Tuesday 7:30 P.M. AT  
Edithvale Community Centre, 131 Finch Ave. W., North York M2N 2H8

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## Member :

Ontario Numismatic Association  
Royal Canadian Numismatic Association

## Executive Committee

President .....Bill O'Brien  
1st Vice President .....Henry Nienhuis  
2nd Vice President.....  
Secretary .....Henry Nienhuis  
Treasurer .....Bill O'Brien  
Past President .....Nick Cowan

Director .....  
Director .....Paul Johnson  
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Junior Director .....  
Auctioneer .....Dick Dunn

Auction Manager.....Paul Johnson  
Editor .....Paul Petch  
Receptionist .....Franco Farronato  
Draw Prizes .....Robert Durant  
Social Convenor .....

## THE BULLETIN FOR SEPTEMBER 2019

### PRESIDENT'S MESSAGE

Good day fellow North York numismatists and everyone else who receives the North York Coin Club's monthly bulletin. Here we are a week away from another summer being but a memory and the beginning of my favourite season of the year, autumn. Unfortunately, it's also time to pack up the shorts and tees and dig out the sweaters. Fall is also the unofficial start of the numismatic calendar.

A quick question to all of you before I continue. Does everyone know the definition of the word *apathy*? You could look it up if you don't know, but I will save you the trouble: uninterested, bored or just plain lack of any enthusiasm. Unfortunately, those are words that I must use to describe half of the club members. This year why don't you members that show up but never contribute develop a new philosophy and ask yourself, "What can I do for the club?" instead of the opposite. If you participate more fully in the meetings and the running of the club you will be surprised how much more enjoyment you will get from the hobby.

We have a good club, but it could be a great club with a little more help. There are all sorts of things that you can do to help the club. How about attending a NYCC executive meeting? The club had their first meeting trying to get all the behind the scenes planning done. This helps the meetings run smoothly, without too much time being wasted discussing menial things that take away from the flow of the meeting. I am happy to share the topics of the meeting with everyone.

Next February 2020 is the sixtieth anniversary of the club and the executive is open to ideas of how the club should celebrate this milestone event. Maybe design and sell some commemorative item? What about a diamond jubilee dinner with a speaker? Think about it and I will open it up to the floor for some ideas at the meeting.

The club is still looking for a Bourse Chairperson to replace Paul Petch, who has held this position since its inception, running the coin show next year and beyond. The banquet room for the show is already reserved so selling bourse tables and promoting the show are the main duties associated with the position. Please consider this position seriously to help the club out so many hands can make light work for all of us.

The club is also still actively looking for someone to replace Bill as the refreshment go-for. This position is responsible for bringing the coffee, drinks and snacks to each meeting along with the necessary glasses and cutlery. The person that is filling this position is also responsible for buying the refreshments. The benefit of this position is that the open leftovers go home with you for your personal consumption. If any regular attending member would be interested in either position, please see the club President Bill O'Brien.

At the club meeting in May the members voted unanimously, again this year, to donate to the Canadian Association for Numismatic Education. Our CAFNE donation was \$200 and I hear that the CAFNE affair at the RCNA convention raised five figures for this fine

### NEXT MEETING TUESDAY, SEPTEMBER 24

We start gathering in the Banquet Room on the first floor of the Edithvale Community Centre, at 7:00 p.m. with meeting start scheduled for 7:30 p.m.



For our September meeting we will be presenting the LNS/ONA slide program *Canada's Fractional Currency*. Canada's 25-cent "shinplaster" notes were originally introduced to address a problem with U.S. silver, but over the 70 or so years they circulated they became popular with the people. Join us to hear the whole story.

Bring along your shinplaster notes and recent finds or special treasures to share with us during the show and tell!

**Please remember to bring your auction lots so we can have a really fine auction at this meeting. Also, we appreciate all donations to our supply of draw prize material.**

organization. Also, like last year, the club will be auctioning off the charitable donation receipt related to the above donation during our October meeting. Thank you everyone for supporting this worthwhile organization.

## NEWS OF THE AUGUST 2019 MEETING

The 657<sup>th</sup> meeting of the North York Coin Club was held on Tuesday, August 20, 2019 in the 2<sup>nd</sup> floor Board Room at the Edithvale Community Centre. Our President, Bill O'Brien, was in the chair and hammered it to order at 7:30 p.m. with 20 members and 3 guests in attendance.

Member Terry Maksymjuk was not present at the time his name was drawn to receive the on-time attendance draw prize of \$35.00. The draw will increase to \$40.00 for the September 24, 2019, meeting.

Bill O'Brien asked the members present if they had noticed any errors or omissions in the minutes of the June meeting, as published. With no errors identified, Nick Cowan made a motion to accept the minutes as printed, which was seconded by Robert Durrant. Motion carried. He then gave a quick finance report in his role as Treasurer.

Bill asked our three guests to introduce themselves and talk about their interests:

- Francois R. informed us that he spent 20 years in Alberta and that he collects 19<sup>th</sup>

century French, Mexican and Spanish coins.

- John Z. mentioned that he collect US Carson City and Peace silver dollars.
- Sergei S. concentrates on the coins of 60–70 countries post decimalization.

Henry Nienhuis gave a brief delegate's report of the RCNA Convention. One of the highlights of the convention that Henry enjoyed was the pre-convention trip to the Calgary Badlands; in particular to the Royal Tyrell Museum in Drumheller and (for something totally different!) the Gopher Hole Museum in Torrington. He reported that he had the honour of representing the club at the CAFNE reception, which went very well. CAFNE was ultimately able to raise over \$16,000 from the event.

A refreshment break was called from 8:00–8:25 p.m.

We resumed the meeting with our regular auction and our customary lucky draw. Lucky draw numbers were called at various times while the auction took place. Lucky draw winners for the evening were—Henry

Nienhuis (3), Bob Tolensky (2), Bill O'Brien, Tom Ivovic, Phillip Simms (2), Richard Duquette (2), and Linda McQuade. The club earned \$20.00 through the sale of the draw tickets! Our auction manager, Paul Johnson, reported that receipts from the auction added \$17.20 to the club coffers. We thank David Potok, our auctioneer, Jim Heifetz, who volunteered as runner, and Paul Johnson, our auction manager, for their help.

There being no further business, the meeting adjourned at 8:45 p.m. The club executive would like to thank members for supporting the club through the purchase of draw tickets and draw prize donations. Please consider supporting your club through a donation of numismatic material or other items. (Don't forget to mention your donations to the club secretary so that your support can be recognized in the minutes and newsletter.)

Please remember that our next regular meeting will take place on Tuesday, September 24 in the 1<sup>st</sup> floor Banquet Room of the Edithvale Community Centre.



Very quietly and with little fanfare The Canadian Banking Memorabilia Society (CBMS) was recently formed by two well-known collectors. Kevin Day-Thorburn, FRCNA is very active in Atlantic Provinces numismatics working out of the Saint John Coin Club and Stephen Oatway is the new Canadian Paper Money Society (CPMS) President.

The CPMS and its members and collectors have always considered the sideline of “ephemera” to be a part of the history of Canadian banking, but otherwise it is a “largely overlooked genre of numismatics,” according to organizer Kevin Day-Thorburn.

Kevin is a skilled communicator and has shown his talents by editing the RCNA's *NumisNotes* for the past three years. He placed several advertisements in the Atlantic Provinces Numismatic Association's (APNA) newsletter and, after being contacted by Stephen, a Facebook page was launched at <http://facebook.com/bankingmemorabilia>. Next up

for the group is a bi-monthly digital newsletter and free group membership until July 2020.

The title at the top of this article was taken from the masthead of the Facebook page and it gives an idea of the many collectables included in the group's interest. “The scope of this new club is far-reaching with lots of room for fresh research. Credit cards and bank cards are one example. The focus of the club will go beyond cheques, enabling everyone with an interest in banking memorabilia an opportunity to participate and contribute to a largely overlooked genre of numismatics. Nearly every collector of coins or paper money has picked up something that doesn't quite fit but is still too cool or historic to pass on. Mechanical banks, calendars, bills of exchange, and postal cards are just a few examples of other memorabilia.”

For more information about the CBMS, visit <http://facebook.com/bankingmemorabilia> or contact Kevin directly at [bankingmemorabilia@gmail.com](mailto:bankingmemorabilia@gmail.com).



Kevin Day-Thorburn



Stephen Oatway

*President's Message ... continued from page 1*

The club has obtained, and paid for in full, the permits for the club meetings for the next season and the annual Coin Show Saturday, May 9, 2020. We have ten meetings booked as well as the coin show with our December meeting (penciled in for December 10) as well as all the executive meetings being held off site. The club executive meetings have been booked at Trend Signs the last couple years to save the club money that would have to be spent for meeting space where attendance is very low.

One of the final pieces of information to emerge from our executive meeting was the need to establish a new position for the club. A social media person is needed to bring our club into the 21<sup>st</sup> century, better late than never. The club needs to aggressively promote our club and to actively recruit new members to attend our regular meetings. The average age of our club continues to creep higher and the need to inject some new blood and idea's is paramount if the club wants to stay relevant in this digital age.

The show schedule is packed with many one-day shows throughout the southern province and the two-day Toronto Coin Expo being held October 4-5. Turn to the last page of this issue for the Coming Events listing. Guelph, Brampton, Mississauga, Oshawa and downtown are where the action will be in the next month, so pace yourself and take some time to enjoy the great outdoors and the hopefully fantastic autumn weather.

Well I guess that should bring everyone up to date on the club and numismatic news from the summer and our executive meeting. The next meeting on September 24 will feature an interesting London Numismatic Society PowerPoint presentation on Canadian Fractional Currency and show and tell night if you have any banknotes relevant to the presentation. Another reason to come to the meeting is winning the on-time attendance draw, which now stands at \$40!

If you would like to see your name mentioned in the bulletin bring some unwanted numismatic material and donate it to the club for use as draw prizes. Please bring your items to the next meeting and see Robert Durant, our draw prize coordinator, who will record your donation.

That's a wrap on club news and everything you need to know to plan your month in numismatics and the NYCC. Don't forget to circle Tuesday, September 24 on your calendar for the next meeting of the club. Come early for the 7:30 meeting to have some time to check out the dealers' wares and auction material as well as socialize a bit with the club members.

*Bill O'Brien*

## RICHARD STOCKLEY BOOKS

For many years Richard Stockley, operating out of Montreal, was one of just a handful of numismatic book dealers in Canada. The other dealers ended their operations one by one, until only Richard Stockley Books remained. Richard had been looking to pass the business on to someone else for a few years now, and early in 2019 events came together making that possible.

Mr. Howard R. Engel of Winnipeg has bought Richard's numismatic book business "lock, stock and barrel", including retaining the name itself, "Richard Stockley Books". This is a smart move, given that it is a known name with a fine reputation. The unveiling of the new business took place at the RCNA 2019 Convention in Calgary with both the old and new business owners in attendance.

Howard reports that he did a roaring business at the Convention and believes that the book business has a very promising future with a strong foundation of interest from Canadian numismatic bibliophiles. "I added no fewer than 40 more names to my already



*Richard Stokley (left) with Howard Engel at the Richard Stockley Books table at the 2019 RCNA Convention in Calgary*

substantial roster of 140 customers."

Howard has all but ruled out attending U.S. shows as a numismatic book dealer. All of the dealers are all too well aware that there is a wall of bureaucracy at the border comprised of issues with customs and tax reporting. "Unlike in Canada, where I've cornered the market as the sole numismatic book dealer, in large U.S. shows like the ANA I would have stiff competition from Kolbe and Fanning and/or Charles Davis. Of course, this does

not preclude me from attending U.S. shows as an interested individual and hobbyist."

I am sure that all the Canadian collectors of fine numismatic literature join your editor in wishing Richard Stockley a well-deserved and relaxing retirement in the tropical paradise of Belize while looking forward to the continued success of Richard Stockley Books under Howard R. Engel's management.

Howard Engel may be reached at the e-mail address [RichardStockleyBooks@mymts.net](mailto:RichardStockleyBooks@mymts.net) or by phone at 204-253-0419.

## DETECTORIST COUPLE UNEARTH NORMAN TAX DODGE IN CHEW VALLEY

by Kaya Burgess, The Times, August 29 2019



*Lisa Grace and Adam Staples had been metal detecting together for 16 years before their greatest find*

BNPS/Susannah Ireland for the Times

As thunder raged above a field in North Somerset in January, a couple worked for more than four hours in torrential rain to dig up one of the most significant coin hoards ever unearthed in Britain.

In 16 years of metal detecting together, Lisa Grace, 42, and Adam Staples, 43, from Derby, had found a number of precious items. Now they have discovered a vast collection of Norman treasure. Experts at the British Museum have described the hoard of 2,528 coins as “massively important”. Museum staff said that the hoard sheds light on the transition between Anglo-Saxon and Norman rule and also revealed a 1,000-year-old form of tax evasion.

While teaching five friends how to use their new metal detectors, the couple found the silver pennies in a field near Chew Valley. About 1,200 of them bear the image of Harold II, the last crowned Anglo-Saxon king of England, and 1,300 bear that of William the Conqueror, who defeated him at the Battle of Hastings in 1066.

The museum said: “It is the largest Norman hoard found since 1833 and the largest ever found from the immediate aftermath of the Norman Conquest.”

It shows that coins bearing Harold’s image were still in use in the months after the conquest and that the Normans struggled with the Old English spelling of moneys’ names and local mints included on the coins. The find has trebled the number of Harold II coins known to exist and increased six fold the number of early William I coins.

The metal-detectorists said the hoard might fetch more than £5 million. The final valuation is likely to be lower, as many of the coins were bent to test their purity and some are chipped or corroded. The sheer number is also likely to reduce their value.

The value of the coins in the 1060s would have equalled the annual income of a whole estate, enough to buy 500 sheep. It was likely to have been buried for safe keeping by a landowner during the unrest that followed the conquest, possibly during the invasion of the region by Harold’s sons in 1068.

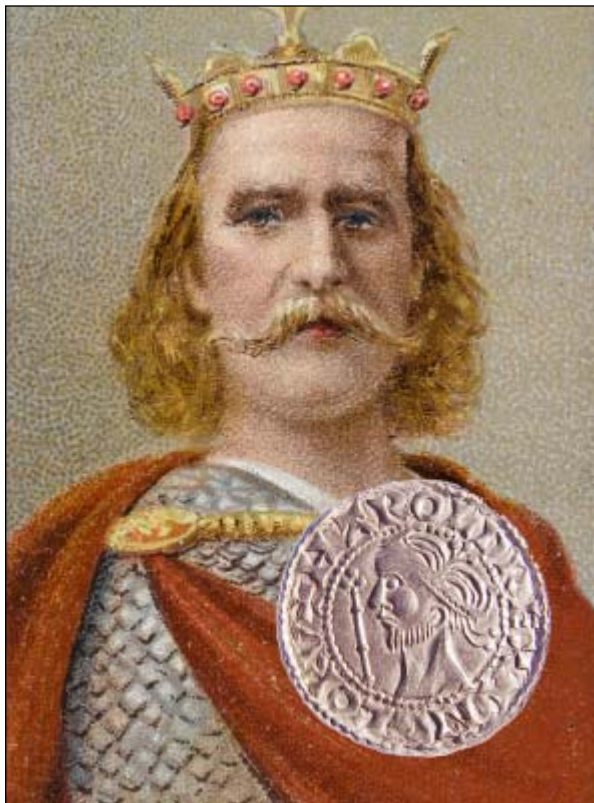
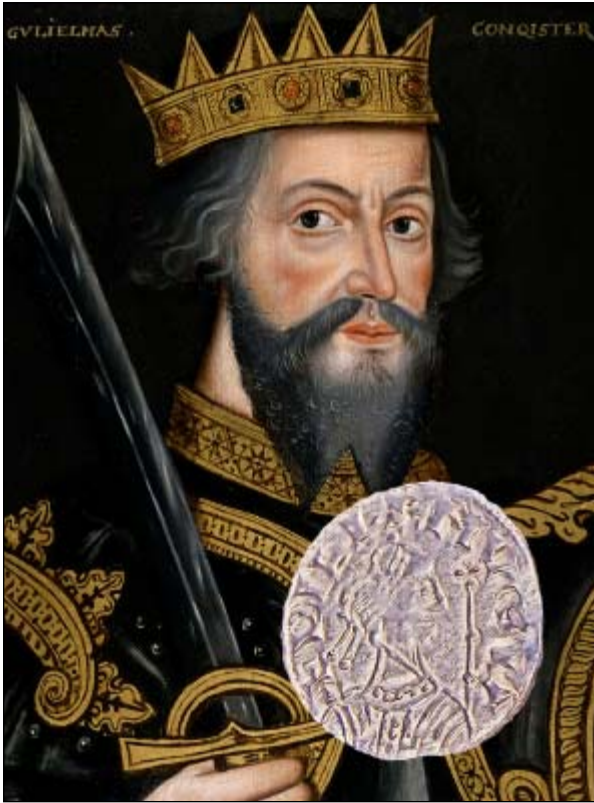
Some of the coins were cut in half to get a smaller denomination, while conservators found the first example of a “mule” coin combining elements of Harold and William’s coinage. Gareth Williams, curator of early medieval coinage at the British Museum, described this as “an early form of tax-dodging.”

Moneys at local mints had to pay a fee to the crown for “dies” used to create the images on the coin’s faces. A blank coin would be placed on one die, which bore one image, before another die bearing the second image was placed on top and struck with a hammer. The upper die wore out more quickly and a moneyer would have to pay for a replacement. Some would illegally re-use outdated dies to dodge this fee.



*The find features coins of Harold II and William I and sheds new light on the post-Conquest period. Some of the coins are halved to make smaller denominations*

Susannah Ireland



William I (The Conqueror), top, and Harold II

The hoard shows that one moneyer had worn out one of his William I dies, so used an old Harold II die, creating a coin with Harold’s face on one side and William’s inscription on the reverse. One coin combines dies from the reigns of William I and Edward the Confessor, Harold’s predecessor. Those caught doing this risked losing a hand, but portraits of medieval kings were so stylised that they looked very similar.

Mr Staples said of their outing: “We went down for the weekend and hit the jackpot.” One of their friends found a single William I coin, itself a rarity. The group scoured the area and discovered thousands more 25cm below the surface. They declined to disclose the exact location, but said they had researched features such as hills, rivers and old highways to target their search. Describing the thunderstorm, Ms Grace said: “It was like the gods didn’t want us to disturb the hoard. We were wet through but it didn’t matter. It was so exciting.” The couple have been together for about 20 years and Ms Grace has a grown up son. Mr Staples has worked as a consultant for auction houses while Ms Grace is an expert in cataloguing antiquities.

She has previously unearthed a Bronze Age hoard and this year found a 500-year-old gold hatpin set with an amethyst.

She said: “It’s an amazing feeling to have unearthed this spectacular hoard. We’ve been dreaming of this for 15 years, but it’s finally come true.”

They reported the find to the local coroner, as required by law, and it was taken to the museum. If the coroner rules, as is likely, that the find is “treasure,” the Treasure Act states that a museum can acquire the hoard and offer a reward to the finders. Any proceeds will be split 50–50 between the landowner and detectorist group. Mr Staples said the couple would use their share to buy a home. The British Museum said the Roman Baths and Pump Room in Bath wanted the coins.

The area where the coins were found belonged in the 1060s to Gisa, Bishop of Wells, though the money may have belonged to sub-tenants on his land.

## Buried Treasure

### Frome hoard

In 2010 52,503 Roman coins were found in Somerset. Experts said the coins “tell a story of political power at the edge of the Roman Empire,” buried around the time that Carausius declared himself ruler of a breakaway empire in Britain and northern Gaul in AD 286.

### Chalgrove hoard

The existence of another rebel emperor was confirmed when 5,000 coins were found in Oxfordshire in 2003, the second hoard found at Chalgrove. It included a coin with the likeness of Domitianus, a Roman soldier acclaimed as emperor in Gaul in the AD 270s. The British Museum said the haul put his existence beyond doubt.

### Vale of York hoard

More than 600 silver coins and 60 other items from the 10th century were found near Harrogate in 2007. They may have been hidden by a Viking leader at a time of unrest.

### Ipswich coin hoard

A hoard of coins was found in an earthenware pot buried 10 feet beneath the doorstep of a house at the corner of Old Buttermarket and St Lawrence Lane in Ipswich. The house was demolished during road widening in 1863. The coins were all silver pennies from the reign of Ethelred the Unready, who died in April 1016.

### Hoxne hoard

The metal detectorist Eric Lawes found the Hoxne hoard in East Anglia in 1992 when he was searching for a lost hammer. The Roman “treasure chest” of 14,780 gold and silver coins, plus 200 items of jewellery, ornaments and tableware, belonged to the family of Aurelius Ursicinus.

## GUELPH ARTIST DESIGNS U.S. COIN HONOURING NATIVE AMERICANS

The Royal Canadian Mint recognized the abilities of the talented Guelph nature artist Emily S. Damstra several years ago, selecting her designs for many of their collector coin products. In 2013 Emily Damstra was the guest speaker at the Ontario Numismatic Association banquet, having recently had her Forest Canopy (Spring) design placed on a collector coin. Now the U.S. Mint has turned to Ms. Damstra for the design on a coin honouring Native Americans that contributed significantly to the U.S. space program.

Ms. Damstra explains, “Since 2009, The United States Mint has annually minted a new one dollar coin honouring a Native American or group of Native Americans. The reverse of the 2019 Native American coin bears my design honouring the contributions of Native Americans to the U.S. Space Program. Specifically, it highlights engineer Mary Golda Ross and Native American astronauts including John Herrington.”

She continues, “My design includes a mathematical equation. Knowing that it was beyond my capabilities to come up with an equation dealing with orbital dynamics that I could confidently say was relevant to Ross’s work, I included in my original submission a placeholder equation. Once my design was selected, The U.S. Mint reached out to NASA engineer Willis Jenkins to provide the equation one sees on the coin.”

“I first learned about Mary Golda Ross upon receiving the assignment to design this coin celebrating the contributions of American Indians to the United States space program. Her achievements deeply impressed me, and I was excited for the opportunity to tell her story through numismatic art. From the beginning of my design process, before I had anything else worked out, I knew that my design would include a figure of her.” Damstra’s only regret is that she could not fit a feather into her design.



*2019 Native American dollar coin with proof finish, engraved by Joseph Menna whose initials appear on the coin*



*Some recent Royal Canadian Mint designs by Emily Damstra*

A figure representing American Indian astronauts is included, she says, because, “I knew Ross was not the only American Indian who contributed to the space program. Though we don’t see his face, the astronaut in my design is outfitted as John Herrington would have been for extravehicular activity. I liked the idea of including an astronaut in space because such a feat was ultimately made possible by the work of people like Mary Golda Ross.”

“I came up with the general design elements pretty quickly,” she admits, “but the details and configuration went through several iterations before being finalized. For example, I originally drew Ross using a Friden calculating machine, but it looked too much like a typewriter so I replaced it with paper, a pencil and a slide rule. Ross undoubtedly employed these tools while working on the Agena rocket program at Lockheed Martin. The small tools may not be obvious at coin size, but their purpose is evident in the large equation inscribed across the Atlas-Agena rocket exhaust behind Ross. I’m very grateful to NASA for providing that equation.”

## MARY GOLDA ROSS: SHE REACHED FOR THE STARS

An excerpt from *American Indian Winter 2018* / Vol. 19 No. 4 by Herman Viola

From the Skunk Works to the stars: that was the trajectory of the remarkable and still partly secret career of Mary Golda Ross (Cherokee), the first Native aerospace engineer who was a member of the top-secret team planning the early years of space exploration. She is now being honoured on a special \$1 U.S. coin.

It's a tribute to both Ross's ability and the quality of her education that she was able to launch successfully into a career pursuing a passion for astronomy. She took a master's degree at the Colorado State College of Education (now Northern Colorado University).

After earning her degree, Ross joined Lockheed Aircraft Corporation in 1942, helping design the P-38 fighter airplane. Six years later, she was an integral part of what was later called the "space race." As one of 40 engineers in Lockheed's Advanced Development Programs, what became known as the Skunk Works, the company's top-secret think tank, she was the only woman on the team aside from the secretary. She was also the only American Indian.

Much of her research and writing at the Skunk Works remains classified, even today. "It is closed even to me," laughs Willis Jenkins, an engineer in NASA's Heliophysics Division, "even though I am an official at NASA." Jenkins was assigned to research Ross's career, as liaison to the U.S. Mint's commemorative coin project. Jenkins notes, "I sought to place myself in her shoes by performing calculations to see how I would get a rocket in space. I marveled at the work that had been done to get a rocket outside the Earth's atmosphere, which is a magnificent accomplishment.

"I have an advantage of a calculator these days versus the slide rule I used in the 1960s, similar to what Mary used working on

preliminary design concepts for interplanetary space travel, manned and unmanned earth-orbiting flights, and the earliest studies of orbiting satellites for both defense and civilian purposes."

As the American missile program matured, Ross found herself immersed in researching and evaluating feasibility and performance of ballistic missiles and other defense systems. She also studied the distribution of pressure caused by ocean waves and how it affected submarinelaunched vehicles. Space flight made use of missile advances originally developed for military purposes, like the Agena rocket. Ross helped develop operational requirements for the spacecraft, which later became a vital part of the Apollo program. Says Jenkins, "Mary worked on the Agena rocket orbital dynamics, calculating the transfer orbit as the rocket left the Earth's atmosphere. Today's engineer would use the computer program, MATLAB, and insert the parameter to determine when the rocket would reach its destination."

Over the years, Ross helped write NASA's Planetary Flight Handbook, the agency's comprehensive guide to space travel. She worked on preliminary concepts for flights to Mars and Venus, laying the groundwork for missions that have not yet come to fruition.

A California newspaper reporter who interviewed Ross in 1961 wrote that she was "possibly the most influential Indian maid since Pocahontas" and noted that she was "making her mark in outer space." She told the reporter, "I think of myself as applying mathematics in a fascinating field." Another article at the time noted that Ross, who had yet to witness a rocket launch, thought women would make "wonderful astronauts." But she insisted, "I'd rather stay down here and analyze the data."

### How to Get to Space

The design for the 2019 American Indian coin features an equation representative of Mary Golda Ross's contribution to the U.S. space program and her skill in mathematics. Because much of her work remains classified, the U.S. Mint staff worked with Willis Jenkins, a NASA engineer from the agency's Heliophysics Division, to determine an appropriate equation. The challenge was especially meaningful to Jenkins for two reasons. "Mary Golda Ross worked on designs for rockets and I have managed rockets in my career. Also, she was of Cherokee descent and I believe my mother's family is as well."

The equation, which is seen in the clouds on the design, was used to help determine the velocity needed to leave the Earth and travel to a distant planet such as Mars.

Jenkins identified the equation as "an example of a formula that Ms. Ross would have used to calculate interplanetary space travel, determine the departure plane orbit and transfer orbit energy.

"Obviously," says Jenkins, "there is no simple formula to be had for the complexity of going into space and reaching a planet. Several calculations are needed to reach space and the surrounding planets for which orbital dynamics play a major part in the operation. There are just too many variables."



2019 Native American Dollar Coin Artist Emily Damstra

### The Commemorative Coin

The earth-bound achievements of Mary Ross were the centerpiece in early 2019 of a new coin honoring American Indians in the Space Program. Each year since 2009, the United States Mint has produced and issued a \$1 coin that celebrates significant contributions Indian tribes and persons have made to the history and development of the United States. Ross will represent both her own work and that of several other prominent Indians, such as astronaut John Herrington (Chickasaw) and flight controller Jerry C. Elliott High Eagle (Osage/Cherokee). Herrington manned the International Space Station in 2002. Elliott plotted the re-entry of the troubled Apollo 13 mission and received a Presidential Medal of Freedom for his role in saving the astronauts.

The Ross proposal, like many of the Native American \$1 coins, started as a narrative provided by and design concepts developed in consultation with the National Museum of the American Indian. The Native American \$1 Coin Act requires consultation with the Committee on Indian Affairs of the Senate, the Congressional Native American Caucus of the House of Representatives, and the National Congress of American Indians. Once the design concepts are defined, the Citizens Coinage Advisory Committee (CCAC) discusses them during its public meetings.

### Inspiring the Future

Although humble, Ross herself likely realized the important legacy of her work. After retiring from Lockheed at age 65, she pursued her interests in engineering by delivering lectures to high school and college groups to encourage young women and Native American youth to train for technical careers.

In 2004, at age 96, she attended the opening of the National Museum of the American Indian building on the National Mall in Washington, D.C. Wearing a traditional green calico Cherokee dress she had asked a niece to make especially for the occasion, she marched in the opening procession of 25,000 Native people. Said a friend, “She felt she was a part of history being made, again.” She herself said, “The Museum will tell the true story of the Indian, not just the story of the past, but an ongoing story.” Ross died four years later, a few months before her 100th birthday. She lived long enough to see her work help launch an American Indian astronaut into orbit.



*Mary Golda Ross, circa 1970, published in the Society of Women Engineers newsletter.*

Photo courtesy of Society of Women Engineers Photograph Collection, Walter P. Reuther Library.



*Mary Golda Ross: Ad Astra per Astra by Cherokee artist America Meredith (Swedish/Cherokee) 2011 painting shows Mary Golda Ross against a starry sky*



## THE ROYAL CANADIAN MINT INTRODUCES THE PULSATING MAPLE LEAF 2 OZ. PURE SILVER COIN

**Product 175012 Mintage: 3,000 (2020) \$199.95 CAD**

The minting business is highly competitive and is global in scope. Those mints that strive to be successful focus on quality, efficiency and innovation. There's no question that our own Royal Canadian Mint is among the best in the world and is always unveiling something new and exciting. It would appear the Mint team has done it again producing a collector coin based on the classic Silver Maple Leaf design.

The Royal Canadian Mint Research and Development Team has collaborated with the University of Ottawa's Centre for Research in Photonics (CRPuO). Together, these innovators created a new technology that produces dynamic optical effects on coins. The technology works by creating sub-millimeter-scale mirrors on the coins. These mirrors are engineered to exact dimensions and orientations and are then engraved on the coining dies used to strike the mirror array onto pure silver blanks.

This new technology has been used to create a unique take on the classic and familiar Silver Maple Leaf design that was first introduced on Royal Canadian Mint silver and platinum bullion coins in 1988. The result is a Silver Maple Leaf on the coin's reverse that appears to expand and contract when you tilt the coin, giving the impression that the maple leaf is pulsating. There is no way that a simple picture on the printed page or computer display monitor can begin to present the fascinating result of the technology, but visit the mint's product web page at <https://www.mint.ca/store/coins/2-oz.-pure-silver-coin—pulsating-maple-leaf—mintage-3000-2020-prod3570091> and you will see an animation of the effect. It is interesting that while the product is available now, it carries a 2020 date.

This coin design was created using a sub-millimeter-scale modified corner cube array. The shape, size, edge angles, and orientation of each individual mirror facet were carefully engineered to create the visual perception of a dramatically pulsating shape. This is an application of photonics, which is the science of generating, detecting, and manipulating photons (light particles). This far-ranging physical science has numerous impacts across fields ranging from better understanding the universe to improving our knowledge of diseases. It affects the daily life of people around the globe in the form of electronics, telecommunications, manufacturing, and more.

Although this is a collector (numismatic) coin and not a bullion coin, the bullion coins from which the design is taken represent some of the world's most sought-after gold, silver, and platinum bullion. The Mint's refinery is one of the most technically advanced for gold and silver in particular. This refinery has produced a number of world firsts, including being the first to introduce a 99.99% pure gold bullion coin (in 1982) and the first to unveil a 100-kilogram 99999 pure gold bullion coin with a \$1 million face value (in 2007).



*The Centre for Research in Photonics at the University of Ottawa (CRPuO)*



## COMING EVENTS FOR FALL 2019

**Sept. 28, Guelph,** Guelph Fall Coin Show, Colonel John McCrae Legion Branch 234, 57 Watson Pkwy. S. Hours 9 a.m.-3 p.m. Admission is \$2, and each attendee will receive a coupon for free admission to the Toronto Coin Expo the following week! *Free level parking, fully accessible. Legendary lunch counter. Coins, banknotes, tokens, Canadian Tire money, medals, books and supplies at more than 35 dealer tables. Featuring some of Canada's and Europe's top numismatic dealers. Club-sponsored Kid's Table for under 14; buy, sell, trade or evaluate.* For more information contact Mike Hollingshead, email [cholling@uoguelph.ca](mailto:cholling@uoguelph.ca), telephone 519-823-2646. Website: <http://www.southwellingtoncoinsociety.com>

**Sept. 29, Brampton,** Rotary Club of Brampton Coin & Trading Card Show, Century Gardens Recreation Centre, 340 Vodden Rd. E. Hours: 9 a.m. to 4 p.m. Admission is \$4, under 14 free and free parking. *Funds raised for children's charities. Buy, sell, trade and appraise at more than 40 tables of dealers, including a children's table.* For more information contact Willard Burton, email [willardb@bell.net](mailto:willardb@bell.net), telephone 905-450-2870.

**Oct. 4 – 5, Toronto,** Toronto Coin Expo – Canada's Coin & Banknote Show, Toronto Reference Library, 789 Yonge St. Located on the 2nd floor. Hours: Fri. and Sat. 10 a.m. to 5 p.m. Admission \$6, under 16 free. *Join us at Canada's premier coin and banknote show and auction, representing Canada, United States, and the world of collectable currencies. Featuring 30+ internationally renowned coin and banknote dealers. This is the place in Canada to buy, sell, trade. Appraisals with internationally renowned dealers in coins, banknotes, tokens, medals, militaria, gold, silver and jewelry. Partnering with Geoffrey Bell Auctions; auction October 3-4, 2019.* For more information contact Jared Stapleton, email [torontocoinexpo@gmail.com](mailto:torontocoinexpo@gmail.com), telephone 647-403-7334. Website: <http://www.torontocoinexpo.ca>

**Oct. 5, Sudbury,** Nickel Belt Coin Club 5th Annual Coin & Stamp Show, Northbury Hotel, 50 Brady St. Hours: 10 a.m. to 4 p.m. Free admission for the public. 27 coin and stamp dealers, multiple exhibition tables, youth section. ABM machine on site. Fully wheelchair accessible. Lots of free parking. *The club's focus this year will be to introduce the youth of our community to the fascinating and rewarding hobby of numismatics, the science of coins and coin collecting. The hobby of coin collecting has been and is still enjoyed by millions of inquisitive minds around the world. Youth section will provide our youths with plenty of free coins and tokens that will hopefully pique their interest in our hobby and our local coin club.* For more information contact Jerome Guenette, email [coinshow@nickelbeltcoinclub.com](mailto:coinshow@nickelbeltcoinclub.com). Website: <https://nickelbeltcoinclub.com/2019-coins-and-stamp-show/>

**Oct. 5, Stratford,** Stratford Coin Show, Festival Inn, 1144 Ontario St. Hours 10 a.m. to 4 p.m. Admission \$2 adults, 16 and under free. Buy and sell coins, paper money and tokens. For more information contact Larry Walker, email [lswalker@cyg.net](mailto:lswalker@cyg.net), telephone 519-271-3352. Website: <http://www.stratfordcoinclub.ca>

**Oct. 6, Mississauga,** Mississauga Coin & Stamp Show, John Paul II Polish Cultural Center, 4300 Cawthra Rd. Hours: 9 a.m. to 4 p.m. Over 30 dealers & 60 dealer tables. Canadian and world coins, banknotes, stamps and supplies. Sponsored by the Troyak Club. Buy, sell, trade, appraise. For more information contact Les Plonka, email [leszekp@rogers.com](mailto:leszekp@rogers.com), telephone 416-5057999. Website: <http://www.troyakclub.com>

**Oct. 20, Oshawa,** Coin-a-Rama, Jubilee Pavilion, 55 Lakeview Park Ave. Hours: 9 a.m. to 5 p.m. *Free dealer and membership draws, New hourly public draws, free admission, featuring paper, coins, tokens, medals, books & supplies and many other items.* So come out and look for that special item for your collection or for a gift. Lots to do and see and even a park for the kids. For more information contact Sharon MacLean, email [papman@bell.net](mailto:papman@bell.net), telephone 905-728-1352. Website: <http://www.oshawacoinclub.ca>

**Oct. 26 – 27, Toronto,** TOREX – Canada's National Coin Show & Auctions, Hyatt Regency on King, 370 King St. W. Hours: Sat. 10 a.m. to 5 p.m.; Sun. 10 a.m. to 3 p.m. Admission \$7. Under 16 Free! *Numismatic excellence since 1962, featuring Canada's finest dealers in Canadian, ancient, and foreign coins, paper money, coin and paper money supplies and reference books.* Official auctioneer is The Canadian Numismatic Company. Auction viewing begins on Friday. For more information contact Brian R. Smith, email [brian@torex.net](mailto:brian@torex.net), telephone 416-705-5348. Website: <http://www.torex.net>

**Nov. 2, Scarborough,** Scarborough Coin Club 23rd Annual Coin Show, Cedarbrook Community Centre, 91 Eastpark Blvd. Hours: 9 a.m.-3 p.m. *The show will feature coins, paper money, tokens, medals, a club table and more. Free admission and draws. Refreshments available.* For more information contact Dick Dunn, email [cpms@rogers.com](mailto:cpms@rogers.com). Website: <http://www.scarboroughcoinclub.ca/>

**Nov. 15 – 17, Montreal,** Nuphilex, McGill New Residence Hall, 3625 Parc Ave. Admission \$5 Friday and Saturday, free Sunday, early bird admission \$25, beginning Friday 8 a.m. Hours: Fri. and Sat. 10 a.m. to 5 p.m.; Sun. 10 a.m. to 4 p.m. Auction to be conducted by Lower Canada Auction. For more information contact Emmanuel, email [montrealnuphilex@gmail.com](mailto:montrealnuphilex@gmail.com), telephone 514-889-7740. Website: <http://www.nuphilex.com>

**Nov. 16, Peterborough,** Peterborough Coin Show, Evinrude Centre, 911 Monaghan Rd. Hours: 9:30 a.m.-3 p.m. For more information contact Nigel Mackey, email [nigelmackey346@outlook.com](mailto:nigelmackey346@outlook.com), telephone 289 685-0092.

**Dec. 1, Brampton,** Rotary Club of Brampton Coin & Trading Card Show, Century Gardens Recreation Centre, 340 Vodden Rd. E. Hours: 9 a.m. to 4 p.m. Admission is \$4, under 14 free and free parking. *Buy, sell, trade and appraise at more than 40 tables of dealers, including a children's table. Funds raised for children's charities.* For more information contact Willard Burton, email [willardb@bell.net](mailto:willardb@bell.net), telephone 416-254-6569.

*Listings are courtesy of Canadian Coin News Coming Events*