

THE GOLD NUGGET

November 2023

All 2023 Find of Month winners. Bring your 2023 monthly find winners to the Nov meeting to enter the Finds of the Year.

The Prez Sez! By Bobby Manning



Thanks for your Pumpkin entries. Yvonne Smith took first place and Bob Holmburg took second place. Each received a Gold Nugget for their hard work, GREAT & JOB WELL DONE!! Our elections are here and the Club NEEDS your help in filling three Board Positions and would like to bring back the Secretary as a single position to help me in doing things that I don't have time during the day for. I work and don't have a lot of spare time during the day, so if you would like to help out, please let me know. Mike Stevens is stepping down as Vice President, and Kevin Singel has offered to take his place. Mike will stay on as a board member. Joe Kafka is also stepping

down as the Treasure so we're looking for someone to fill his spot as well. So PLEASE HELP YOUR CLUB IN GETTING THESE POSITIONS FILLED.... THANK YOU. Give Gordon Smith a Call at 303-842-4478 to get your name on the ballot for the upcoming elections.

It sounds like everyone had a great time at the Pirate's latest hunt, and Bill Manning called me to tell me how much fun he had and he even found a quarter in the parking lot. Great job on all your Finds...! I am also working on getting some gold for next year and Christmas.

We also need to know what kind of meat you would like to have for Christmas Dinner. Bob will put together a program like last year. If you would like me to smoke something I would be happy to do that.

Don't forget about our November 4th Outing to get some ore from an old train wreck site and the Metal Detecting Outing at Club Crest North Park.

We ruled out Majestic Park as the weeds were just too tall and it would be too hard to swing a detector there, so that is why I moved the location this year. If there is something you like me to do, please call me at 303-420-8830. Hope to see you all at the next meeting. . May your Pan be shining with yellow GOLD..!

Vice President's Corner! By Mike Stevens



At the end of September we had our club picnic. It's always a fun time to visit with fellow club members and enjoy some good food. Bobby outdid himself and smoked enough beef to feed four clubs worth of people, and it tasted great! We sat around and shared prospecting stories, metal detecting adventures and wonderful everyday conversation. It was a great opportunity for my wife and son to meet the people behind all of the stories I've shared with them. I'm looking forward to our final two outings of the season, and I sure hope the cold weather holds off just a little while longer as I'm not at all ready for winter.

Golden Smiles for All!

From the Treasurer/Secretary Ledger by Joe Kafka



Enjoyed the October meeting and we had a good turnout. The Club remains in the black and members may request to see the financial report at any time which I have at my table in the back whenever you wish to see it. Hope to see you all at the next meeting in November when we will be giving away more gold nuggets and great door prizes....!! Don't forget to buy your 'Special nugget' tickets and your '.50/50 tickets' as well. See you all at our next meeting.



Board Meeting Minutes from Oct 2023

X	Bobby Manning	X	Andy Doll		Robert Ahr		Joe Johnson
X	Mike Stevens	X	Joe Kafka	X	Kevin Singel		
	Mike Hurtado	X	Gordon Smith		Roger Schlenger		

Quorum Present: Yes

Call to Order by: Pres Manning at 6:08 pm.

Reading and Approval of Minutes: Corrections: None_ Approved as read/corrected: Moved by G. Smith; second by R. Schlenger. Approved

Treasurer's Report: Questions: On \$80 associated with 2023 CD_ Prelim, Approval: Moved by A. Doll; second by M. Stevens. Approved

Correspondence: phone calls 2 emails 0 mail 0

Webmaster: Total hits Hits in last 30 days 208

Committee Reports:

- Nominating Committee: G. Smith requesting time to make election announcements to the membership. Proxies Forms will be available to members at the front table for anyone who may not be attending the November meeting.

Unfinished Business:

- Christmas gold discussion: Due to dwindling supply, a motion was put before the board to give only one gift nugget per family as opposed to distributing a gift nugget to each person in attendance as done in the past. The only exception being a gift nugget will be given to each youngster in attendance. Motion from R. Schlenger, second by K. Singel. Motion unanimously carried.

New Business:

- After a brief discussion, a motion was made by R. Schlenger for the club to make a \$150 donation in memory of J.J.'s wife, to her favorite charity. K. Singel seconded. Motion carried unanimously.
- One of the phone calls received was from a person with land that is interested in prospecting on the land. President Manning invited this individual to attend a club meeting. A follow up phone call came from this individual's father, who actually owns the land. There is a possibility this location could become a property available to the club for outings should it prove to have gold on it. President Manning will keep in touch with these folks.

Planned Outings:

- Outing @ Fountain Creek in COS on Nov. 4th will be announced to membership at tonight's meeting. This is the location of a train wreck that dumped gold ore into the creek. Fliers with details were placed at the front table.
- The club metal detecting hunt is scheduled for Nov. 18th at Club Crest Park North. It will begin at 9 a.m. Announcement will be made to the membership during the meeting.
- The Pirate's Hunt will occur on the last Wed. of the month. Board member Robert Ahr leads these metal detecting events and everyone is to meet at McCoy's restaurant @ I-70 & Federal at 8 a.m. for breakfast or 9 a.m. if only attending the hunt.

Board Members Items of Discussion: None

Tonight's General Meeting Program:

- No presentation this evening. Instead, additional time will be given in the break for voting on the best pumpkin submitted for the annual pumpkin carving contest.

Announcements: Next Board Meeting 11/15/23 at **6:00pm** Next General Meeting: 11/15/23 at **7:00pm**

Adjournment: R. Schlenger moved to adjourn; K. Singel seconded. Motion carried.

Meeting stands adjourned at 6:42 pm.

QUESTION OF THE MONTH
What percentage of gold is considered to be 18 karat???

- 2023 GPR Board of Directors Members**
- President**
Bobby Manning
- Vice President**
Mike Stevens
- Secretary/Treasurer**
Joe Kafka
- 2 Year Board Members**
Robert Ahr (2024)
Andy Doll (2024)
Gordon Smith (2024)
- 1 Year Board Members**
Kevin Singel
Roger Schlenger
Vacant
Vacant
- Past President**
Joe Johnston

General Meeting Minutes from Oct 2023

- Meeting was opened at 7:05 pm by Pres. Manning with the Pledge of Allegiance.
- Pres. Manning then announced that there would be no evening Program.



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3. **Pres. Manning** then gave the Metals Report: Gold 1937.00, Silver 23.12 Platinum 912.00 Palladium 1166.00
Rhodium 5800.00.
4. **Web hits** for last month was 208.
5. **Treasurer Joe Kafka** reports that the Club remains in the black. Report is available for review for anyone who wishes to see It. We have a 'Special Nugget' tonight so be sure to buy lots of tickets. It is a beautiful specimen.
6. **Robert Ahr and Shelly Zornes** from the Membership Table reported that we had 42 members in attendance. There was 1 Guest present tonight. New members 0. The total meeting attendance was 45.
7. **Pres. Manning** read the 'Question of the Month', which was "...**Although acids dissolve most metals, which acid mixture is used to dissolve Gold?** The winners will receive an extra ticket to the gold nugget drawings later during the evening program.
8. **Pres. Manning** advised that there was time to enter items at the break for the 'Finds of the Month' table and that the monthly winners from tonight will need to be brought back next month for the Finds of the Year competition in November, 2023. A reminder to all that their gold submissions need to be weighed dry and only one submission per person per category. Be sure to fill out the entry cards completely. Only finds found within the last 30 days may be submitted.
9. **John Johnson** announces the 'Cache Clue' # 3.
10. **Pres. Manning** advised that the Club Store was open tonight.
11. **Pres. Manning** informed the membership that there is a club outing to Fountain Creek in COS on Nov. 4th, beginning at 9 a.m. A flier with details was available at the front table. This outing is to a location where train derailments last century dumped gold ore into the creek. Announcements will also be made with the Newsletter postings. Additionally, the annual metal detecting event will be held on Nov. 18th at 9 a.m. at Club Crest Park North.
12. There was a reminder to be sure to vote for the best pumpkin entered in the annual pumpkin carving contest and on the Finds of the Month as well as to answer the Question of the Month during the break. Additional items include... the next Pirate's Hunt is scheduled for the last Wed. of the month. Board member Robert Ahr leads these metal detecting events and everyone is to meet at McCoy's restaurant @ I-70 & Federal at 8 a.m. for breakfast or 9 a.m. if only attending the hunt.
13. **Pres. Manning** announced the break at 7:28 p.m. Meeting was called back to order at 8:00 p.m.
14. **Pres. Manning** announced the winners of the 'Question of the Month'. The answer was, "...**Aqua Regia** ...!" The winners received their extra drawing ticket for the gold drawing.
15. **Pres. Manning** announced the winners for the 'Finds of the Month.' They were:
 - **Best Coin** – **Joe Johnston** with a 1906 Indian penny he found in Aurora while metal detecting.
 - **Best Jewelry** – **John Olson** with a silver necklace with crosses he found in Clear Creek Valley Park while metal detecting.
 - **Best Mineral** – **Angie Yen** with a jasper matrix sample she found in Yellowstone River Valley, Montana.
 - **Best Artifact** – **Shelly Zornes** with a bank note coin she found in Denver while metal detecting.
 - **Best Bottle** – **Mitch Ross** with a bottle he found in Denver.
 - **Most Raw Gold** – **Kevin Singel** with 0.921 grams of gold he found in the Blue River near Silver Thorne, Colo..
 - **Largest Raw Gold** – There was no find submitted for this category in September.
16. **Pres. Manning** concluded the evening with drawings for the numerous door prizes donated by the **GPR, JJ Long and Y. Smith**, followed by the drawings for the gold nuggets. **Pres. Manning** also wants to remind that holders of drawing tickets for the regular gold drawings who did not win and want to redeem those tickets may present them at the end of the Meeting and they will be reimbursed at .01 cents on the dollar, or they shall be considered to have been donated back to the Club. Those assisting in the drawings were **Joe Kafka and John Olson**.
17. **Pres. Manning** conducted the 50/50 drawing. Also, the results of the voting for best pumpkin were for the one submitted by Yvonne Smith. She received a 1.4 gram nugget as her prize.
18. **Pres. Manning** reminds the members that sometimes during the meetings, The President's time is overwhelmingly taken up by the many who wish to speak to him and he apologizes if anyone ever feels like he is unavailable. It is not his intent to be inaccessible and he encourages anyone with questions to contact him by e-mail or phone outside the meetings at any time. His e-mail and phone number are on the web site.
19. **Pres. Manning** thanked **Greg and Nancy Knerl** and all those who contributed to the Refreshment Table. Each member is encouraged to chip in and add to the spread each month. Don't forget the 'tip jar' also, which helps to defray costs. This really helps the folks who run the table and those who volunteer up front each month. The Club appreciates the efforts that each and every one of you to make the refreshment table enjoyable.
20. **The November Meeting Program** is to be determined. Having nothing further at this time, ...remember to always prospect safely.
21. **Meeting was adjourned at 8:30 pm.**



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A Miner's Laugh

There was this old priest who got sick of all the people in his parish who kept confessing to adultery. One Sunday, in the pulpit, he said, "If I hear one more person confess to adultery, I'll quit!" Well, everyone liked him, so they came up with a code word. Someone who had committed adultery would say they had "fallen". This seemed to satisfy the old priest and things went well, until the priest finally died at a ripe old age. About a week after the new priest arrived, he visited the mayor of the town and seemed very concerned. The new priest said, "You have to do something about the sidewalks in this town. When people come into the confessional, they keep talking about having fallen." The mayor started to laugh, realizing that no one had told the new priest about the code word. Before the mayor could explain, the priest shook an accusing finger at the mayor and said, "I don't know what you're laughing about. Your wife fell three times just this week....!!!"



(Taken from the internet and revised just for all us 'old miners')

The Finds of the Month Oct 2023:

- **Best Coin** – Joe Johnston with a 1906 Indian penny he found in Aurora while metal detecting.
- **Best Jewelry** – John Olson with a silver necklace with crosses he found in Clear Creek Valley Park while metal detecting.
- **Best Mineral** – Angie Yen with a jasper matrix sample she found in Yellowstone River Valley, Montana.
- **Best Artifact** – Shelly Zornes with a bank note coin she found in Denver while metal detecting.
- **Best Bottle** – Mitch Ross with a bottle he found in Denver.
- **Most Raw Gold** – Kevin Singel with 0.921 grams of gold he found in the Blue River near Silver Thorne, Colo..
- **Largest Raw Gold** – There was no find submitted for this category in September.



Remember that all gold must be dried and weighed. All monthly winners need save their entries for the November meeting when the Finds of the Month will be judged for the Finds of the Year. So be sure and save them. Photos by Mike Stevens

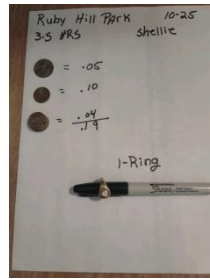
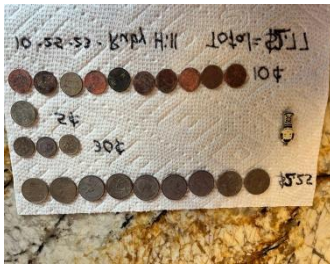
The Pirate's Aug 30 Hunt by Robert 'The Pirate' Ahr

Hello and Good Morning everyone, The Pirate's had a good start 6 of us started off with a Hot Breakfast at McCoy's Restaurant. At 0900 hrs. 2 more of the group showed up that made 8 of us getting ready to go Hunt the fields of Ruby Hill Park. We started off by hunting the sledding hill from top to bottom. Bob H. was on the move from bottom to top in a heart-beat, pulling change from the hill like it was an ATM. Jack and Angie worked together, while Joe K. was working around the trees at the bottom of the Hill. Shellie was bouncing all over the park and Billy M. was getting used to the Garrett 250 and Chris was the girl with everything in control sitting under a shade tree with a cool drink in hand.. Anyway Bob H. came in with a cool 2.77 and a Bling Charm, I followed in with 2.70 with a Susan B.. Angie and Jack found a nice pair of sun glasses, and Joe .35cents and 1 shell casing.. And Shellie ends up with .19 cents and a Ring... All



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in all, it was a good day and I will see ya all on the next Pirate's Hunt..... Robert (the Pirate) Ahr.photos by the 'Pirate')



These finds are not what you get every time you go out. Sometimes, all you find is a little trash. Photos 4 and 5 represents what many of us find a lot of the time. But nothing comes without effort. The more you put into it, the more you will get out of it. So keep trying and keep on looking.. Just sayin'!!!

Annual Pumpkin Carving Contest

The Annual Pumpkin Carving Contest for October was held and several entries were judged. Not as many as we usually have each year but still some pretty interesting pieces were submitted. The winner was finally determined and the Gold Fever by Yvonne Smith's Nutty Knockers was selected as the winner. The second place award went to Bob Holmburg with his submission of Gold Fever. Well done folks. Photos by Mike Stevens.



Another Huge Nugget found in Ghana

A group of illegal miners have unearthed one of the largest gold nuggets in the history of Ghana. While digging the earth in one of their Galamsey explorations, they came across a very huge gold nugget.

The gold nugget is believed to be one of the biggest to ever been discovered in the history of the country, sending shockwaves through the nation's mining community. This incredible find, weighing a staggering 70 pounds (32 kilograms), occurred in a remote corner of the Ashanti region, showcasing the untapped potential beneath Africa's soil. A video capturing the euphoria of the miners as they unearthed this colossal treasure has gone viral on social media platforms. Viewers worldwide have expressed their awe at the sheer size of the nugget, with the miners jubilantly celebrating their extraordinary find. In the video, one miner can be heard exclaiming, "God bless Africa!" Ghana, already renowned as the sixth-largest gold producer globally, stands to benefit immensely from this discovery. The find is poised to attract significant investment into the nation's flourishing mining sector, further solidifying its position on the international





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stage. The miners who unearthed the mammoth nugget have reportedly decided to sell it to a local gold dealer. While the exact worth of this remarkable discovery remains undisclosed, preliminary estimates suggest it could command a price tag worth millions of dollars. This discovery underscores the remarkable mineral wealth concealed beneath Africa's surface and pays homage to the tenacity and resourcefulness of the continent's miners, who often risk their lives in pursuit of their fortunes. However, it has also sparked a crucial conversation regarding the ethics surrounding illegal mining in Ghana. Illegal mining has long been a pervasive issue in the country, linked to severe environmental degradation, human rights violations, and even conflict. Yet, this extraordinary nugget has shed light on the potential economic advantages associated with illegal mining. The Ghanaian government is currently in the process of regulating the nation's mining industry and intensifying efforts to combat illegal mining. The effectiveness of these measures, however, remains uncertain. Meanwhile, this monumental discovery serves as a stark reminder of both the challenges and opportunities that lie ahead for Ghana's mining sector. As the world watches in wonder, Ghana stands at a crossroads, striving to balance the allure of newfound treasures with the imperative to protect its environment and human rights. The 70-pound gold nugget serves as a glittering symbol of both Ghana's mining potential and the complexities that accompany its unearthing. The previously largest gold nugget discovery in Ghana ever was made in **Ballarat**, a gold-mining town where many people find gold and where they once thought the gold was depleted. Using his metal tracker, a retired man uncovered a massive chunk of gold beneath the ground weighing nearly 4.4 pounds and valued at over \$160,000. *(Photo is not the nugget found)*

New Material Contains an Extremely Rare Kind of Gold PHYSICS 07 October 2023 By DAVID NIELD

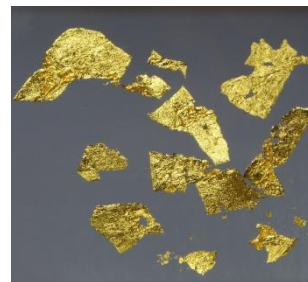
Thanks in part to the atom's size, a charged variation of gold called Au^{2+} which isn't commonly found in nature. Scientists from Stanford University, the University of California, Berkeley, and McGill University in Canada have now managed to create and stabilize the rare ion, allowing for a host of new uses for this fascinating elemental metal. Gold atoms have a lot of protons packed into their nuclei, giving them a large positive charge that tugs hard on their orbiting electrons. These unusually strong forces make the effects special relativity on their acceleration far more significant, making some arrangements of electrons more likely than others.

Not only does this relativistic configuration give gold its yellowish luster, it makes the loss of one or three electrons more likely than the loss of two. Here, the chemists trapped gold ions in a type of crystalline material called a halide perovskite which is used everywhere from solar panels to electronic devices.

The special configuration of elements in the crystal stabilized any Au^{2+} ions that formed within its matrix, effectively preserving their unique state. "Halide perovskites possess really attractive properties for many everyday applications, so we've been looking to expand this family of materials," says chemist Kurt Lindquist, previously at Stanford University and now at Princeton University. "An unprecedented Au^{2+} perovskite could open some intriguing new avenues." Discovered as part of separate research into magnetic semiconductors and how they might improve electronic devices, the formula includes a mix of cesium chloride salt, Au^{3+} chloride, water, hydrochloric acid, and "a little vitamin C". "In the lab, we can make this material using very simple ingredients in about five minutes at room temperature," says Lindquist. "We end up with a powder that's very dark green, nearly black, and is surprisingly heavy because of the gold it contains." By donating one of its electrons, the vitamin C transforms the Au^{3+} ion into Au^{2+} .

Numerous analyses confirmed the scientists had indeed produced this rarest of gold states in a stable form. Gold is an attractive element for a lot of reasons, besides its rather eye-catching color: it's relatively easy to reshape, but doesn't easily react with other chemicals, meaning it doesn't tarnish or degrade over time. Now we have a new, stable form of it to make use of, the next steps are to look more closely at the optical and electronic characteristics of Au^{2+} , characteristics that could eventually be tweaked and used in electronics and other fields. "It was a real surprise that we were able to synthesize a stable material containing Au^{2+} and I didn't even believe it at first," says chemist Hemamala Karunadasa from Stanford University. "We're excited to explore what an Au^{2+} perovskite could do." *(photo is not the Au^{3+} molecule)*

The research has been published in Nature Chemistry.



What is a Troy Ounce? FEBRUARY 1, 2023 WRITTEN BY MONICA

One of the best parts of watching *Bering Sea Gold* is the gold weigh at the end of most episodes. Watching that gold pile up on the scale can be exciting, or heartbreaking, depending on what the scale might say. TV personality Mike Rowe reads the scale total with some witty little quip about how the crew did and then we see a season total at the end of the



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episode for each dredge. What they don't make clear on the show is that those totals are in troy ounces, not regular ounces. So, what's a troy ounce and how is it different? Let's take a look. Imagine you just found some shiny gold while panning on your Alaskan vacation. You want to sell it, but you need to know how much it weighs. This is where the difference between a regular ounce and a troy ounce comes into play. A troy ounce is a unit of weight commonly used to



measure the mass of precious metals such as gold, silver, and platinum. The name "troy" comes from the medieval market town of Troyes in France, which was a major center for trade in these precious metals. One troy ounce is equal to 31.1034768 grams, which is slightly different from the regular ounce that is commonly used in most everyday measurements. A regular ounce, also known as an avoirdupois ounce, is the type of ounce we use to measure everyday items like food and goods. It weighs approximately 28.3495 grams. This makes a troy ounce about 10% heavier than a regular ounce.

Precious metals have been traded and valued by weight for thousands of years, and the troy ounce has become the standard unit of measurement for these materials

because of its long history and widespread use. So, when it comes to selling your gold, you'll want to know how much it weighs in troy ounces. This is because the troy ounce is the standard unit of measurement for precious metals, and it provides a consistent and standardized way of evaluating its value. This makes it easier for buyers and sellers to have a consistent unit of measurement as regular ounces can vary between countries and regions.

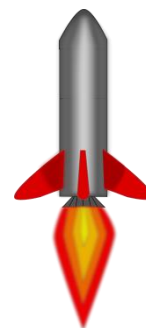
To sum it up, the difference between a regular ounce and a troy ounce is their intended use and weight. A regular ounce is used for everyday items, while a troy ounce is specifically designed for measuring the weight of precious metals like gold. By using a troy ounce, you can accurately determine the value of your gold and make sure you get a fair price when you sell it.

Monica

Monica's a treasure hunter at heart and loves watching adventure seekers around the world on TV and online. She has been learning and exploring the world of gold prospecting with the help of seasoned professional gold miners while continuously learning more each day. She panned her first gold from the Bering Sea on the beaches of Nome, Alaska. Monica's been writing content and designing websites for over 15 years.

Mining the Moon by Alexandria Baron September 2023

While it may sound like something of science fiction, NASA has expressed interest in mining moon resources. At first, it may sound like a far-fetched idea, but now we finally have details on when those drills are expected to go to space. A rocket scientist at NASA's Johnson Space Center, Gerald Sanders, spoke to the World Mining Congress 2023 this summer and shared that the government agency is sending a test drill to the moon's surface this year to collect soil and assess its mining capabilities. He said that they expect to have a lunar mining operation and a processing plant in place by 2032. The focus will be on energy, water and oxygen to start, and then minerals and rare earth minerals later on. Mining on the moon is also expected to advance space exploration, with America set to step on the moon again in 2025 as part of its Artemis mission. "We will collaborate with commercial and international partners and establish the first long-term presence on the moon," says NASA. Other private companies are also interested in mining in outer space. Most recently, start-up AstroForge, launched new missions in hopes of asteroid mining. They hope to succeed where other businesses like Planetary Resources and Deep Space Industries failed. But with new technologies advancing so quickly and NASA moving ahead with its lunar mining mission, this could very well be where the next gold rush begins. *(I wonder if the Gold Rush guys are going to try to get in on this deal...???) JJ)*



New compounds make dissolving gold simpler and safer

Two new polypseudohalogen compounds derived from cyanogen bromide have the unusual property that they can dissolve gold at room temperature. The discovery could lead to safer chemicals for leaching gold and other noble metals from ore, as well as offer a new way to recover and recycle metal from electronic waste.



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Polyhalogen chemistry has been of increasing interest in recent years. However, due to their high instability, volatility and problematic synthesis, less time has been spent studying polypseudohalogen, which are pseudohalogen compounds that essentially imitate halogens in their chemistry while also possessing polyhalogen ions.

Now, Benjamin Schmidt and colleagues in Sebastian Hasenstab-Riedel's group at the Free University of Berlin have used their expertise in polyhalide chemistry and halogen bonding to explore the pseudohalogen compound cyanogen bromide. They have also managed to synthesise and characterise two new anions of polypseudohalides that can dissolve gold.

The structure of one of the polypseudohalogen $[\text{Br}(\text{BrCN})_3]^-$ in the solid state with its counter-ion

The team made the new compounds in a simple one-pot synthesis by carefully adding the highly toxic cyanogen bromide to a bromide salt in an acetonitrile solvent. The resulting salts were then characterized using x-ray diffraction and spectroscopy techniques to prove the structures of the polypseudohalides. Depending on the cation, the formation of room temperature ionic liquids was possible.

When the team left elemental gold in the ionic liquids overnight they found it was completely dissolved by morning. 'We knew that cyanogen bromide was used in some of the older processes to dissolve gold from crushed ore,' says Schmidt. 'With our new compounds it could be possible to simplify the process of gold leaching by using neat room temperature ionic liquids based on cyanogen bromide.'

Cyanogen bromide is highly volatile and is readily inhaled or absorbed through the skin making it extremely dangerous to handle. The new compounds are ten times less volatile though. However, despite safer handling, the new compounds are most likely harmful to the environment.

'The transformation of the very toxic and volatile cyanogen bromide into an ionic liquid of low volatility is particularly exciting,' comments Jason Love, a chemist working on metal recovery at the University of Edinburgh, UK. 'The selective dissolution of gold using straightforwardly handled reagents is an important aspect of recycling gold from primary ores, and increasingly from secondary resources such as electronic waste.'

'We now have to take a closer look at the properties of our new compounds. We want to dissolve several metals and investigate the precipitation of them,' explains Schmidt. 'It would also be interesting to know if the reactive ionic liquid can be fully recycled and used again for metal recovery.'

References S Hasenstab-Riedel *et al*, *Angew. Chem., Int. Ed.*, 2019, DOI: 10.1002/ange.201903539

Gold is officially outperforming stocks in 2023 as October rally continues Last

Updated: Oct. 26, 2023 at 5:08 p.m. ET First Published: Oct. 26, 2023 at 5:02 p.m. ET **By Joseph Adinolfi**

Its official: gold is officially outperforming the S&P 500 stock index in 2023 due to an October rally that has brought the price of an ounce of the yellow metal to the cusp of the \$2,000 mark, a level it hasn't seen since May.

Metals traders attributed gold's gains to a surge in demand for hedges and safety plays following Hamas's Oct. 7 attack on Israel, which provoked a war between Israel and the group that is deemed a terrorist organization by the U.S. and European Union.

"The brutal Hamas attack on Israel sent shock waves around the world — and sent the price of gold soaring," said Brien Lundin, editor of Gold Newsletter, in a monthly outlook shared with MarketWatch.

As of Thursday's close, the S&P 500 SPX had gained 7.8% since Jan. 1, while front-month gold futures have gained 9.2% during the same period, according to Dow Jones Market Data.



Uncredited



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Gold GC00, 0.24% futures for October delivery, the current front-month contract, gained \$3.10 per troy ounce, or 0.16% to \$1987.20 on Thursday, its highest settlement value since May 16, according to FactSet data. Since the start of October, it has risen more than 7.5%.


By comparison, the S&P 500 is down 3.5% month-to-date as it heads for a third straight month in the red. If it finishes October in the red, it would mark the first time the large-cap index has fallen for three consecutive months since March 2020, FactSet data show.

Gold also outperformed stocks in 2022. While front-month futures finished the year marginally lower, the losses were much more modest than the 19.4% drop in the S&P 500, a figure that excludes dividends. Gold also outperformed stocks in 2020, when gold futures rose 24.4% compared with the S&P 500's 16.3% gain.

As of Thursday's close, the S&P 500 has fallen 9.8% from its 2023 closing high of 4588.96 from July 31. That leaves it just outside of correction territory, which is defined as a drop of 10% or more from a recent high.

The index has fallen 2.6% over the past two trading days, its largest two-day decline since March 10, according to Dow Jones data. On that day, Silicon Valley Bank collapsed, sending tremors through markets.

Gold's outperformance compared with stocks looks even more notable when measured against the equal-weighted version of the S&P 500 XX:SP500EW.45, which is down 4.3% year-to-date, according to FactSet data



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The Gold Nugget

Gold Prospectors of the Rockies
PO Box 150096
Lakewood, Co 80215-0096

ADVERTISING IN THE GOLD NUGGET

Commercial Ads

3.6" x 2.0" Two Column Inches (Business Card Size)..... \$6
 3.6" x 4.3" Four Column Inches..... \$12
 7.5" x 4.3" Eight Column Inches (Horizontal)..... \$24
 3.6" x 9.3" Nine Column Inches (Vertical)..... \$24
 7.5" x 9.3" Eighteen Column Inches (Full Page)..... \$48

For information to publish your "Ad" in The Gold Nugget, please contact the Editor. **COPY DEADLINE** is due to the editor by the 25th of the month for publication in the following months' issue of the Newsletter.

Contact the GPR President
(Layout Design Subject To Additional Cost)



Coming Announcements and Special Events for Dec 2023

(**WMMI** - Western Museum of Mining & Industry, 225 North Gate Blvd. Colorado Springs, CO 80921
<https://www.wmmi.org/>) (Free to GPR Member with badge)

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20 GPR Club Meeting	21	22	23
24/31 Christmas Eve	25 Christmas Day	26	27 Pirate Hunt	28	29	30