

PRECIOUS METALS NEWS

# PRECIOUS METAL SAMPLING & ANALYTICAL SYMPOSIUM IV



**PLUS**

- Photos from the Platinum Dinner
- Recap of the New England Chapter Summer Social
- Photos from the Vicenza Jewelry Seminar in Italy
- European Chapter Annual Seminar
- Latest Industry News

# Precious Metal Sampling, Assaying and Refining Symposium IV:

## Agenda

### Sunday, October 13th

6:30 - 8:30 PM: Meet and Greet reception at the Table Mountain Inn

### Monday, October 14th

8:00 - 9:00: BREAKFAST

9:00 - 9:30: SAC Committee Updates and Round Robin Discussion

9:30 - 10:00: "Machine Learning to Identify Precious Metals from Scrap Waste", Manish Mishra, EcoMerc

10:00 - 10:30: Presentation by SGS, Title TBD

10:30 - 11:00: BREAK

11:00 - 12:00: "The Liberation Factor: A Great Academic Achievement - A Highly Confusing Concept for the Daily Routine Practitioner.", Keynote Speaker, Dr. Francis Pitard, sampling consultant

12:00 - 1:00: LUNCH

1:00 - 2:00: "Auto Catalyst Reclamation: State of the Markets, Sampling and Analysis Panel Discussion", Moderator: Zachary Henneman, BASF

2:00 - 2:30: "Investigation of Bismuth as a Lead Replacement in the Fire Assay Process", Jason Michalek, UPMR

2:30 - 2:45: BREAK

2:45 - 3:15: "Atomic Absorption Spectroscopy, A Well Understood, Versatile Multi-Element Technique Accessorized for Speed of Analysis and Extended Linear Range", Christine Rivera, Agilent

3:30 - 5:00: Networking and/or college tour

6:00 - 9:00: Dinner banquet at Fossil Trace Golf Club

### Tuesday, October 15th

8:00 - 9:00: BREAKFAST

9:00 - 9:30: "Impact of Cu and Ni on Ag Loss of Doré Samples in Fire Assay", Cody Burke, Axiom Scientific

9:30 - 10:00: "An Innovative Mass Spectrometry Technique for Solid Material Analysis Across the Precious Metal Supply Chain", Speaker: Fergus Keenan

10:00 - 10:30: "Precious Metal Dissolution Techniques", Kirill Pereverzev, CTO, ColdBlock Technologies

10:30 - 10:45: BREAK

10:40 - 11:15: "Precious Metal Impurity Methods by GD-MS", Chris Swagler, Materion

11:15 - 11:45: "iSpark Plus Analysis of Precious Metals", Christopher Schaffer, Thermo Fisher Scientific

11:45 - 12:45: LUNCH

1:00 - 1:45: SAC Planning Discussion and Closing Statements

2:00 - 4:00: Afternoon networking

4:00: Brewery tour and tasting at The Mountain Toad Brewery

### Wednesday, October 16th

8:30 - 10:30: Experimental Mine Tour, meet at the mine  
GOLF: First tee time at 12:50. \$140 per player (pay at the golf course). Played at Fossil Trace Golf Club



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# PLATINUM DINNER - RECAP



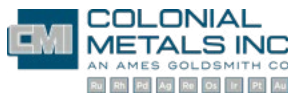
## The IPMI Just Concluded Another Successful PLatinum Dinner in New York City

The IPMI celebrated its 11th Annual Platinum Dinner on September 12, 2024, at the luxurious St. Regis Hotel in New York City. The evening commenced with an elegant cocktail reception in the hotel's penthouse, providing attendees with a perfect opportunity to network and unwind before the main event. As the night progressed, guests moved to the stunning Roof Ballroom of the St. Regis, where they enjoyed a wonderful dinner that set the stage for a memorable evening.

A highlight of the night was the insightful presentation by renowned macroeconomist Mickey Levy, who delved into the major global trends affecting economies, interest rates, and exchange rates. His analysis provided valuable perspectives on the current economic landscape, sparking engaging discussions among the attendees. The success of the Platinum Dinner was made possible by the generous support of IPMI's sponsors. The event not only reinforced IPMI's commitment to fostering meaningful dialogue within the precious metals community but also celebrated over a decade of excellence and collaboration that has always been a hallmark of the Platinum Dinner.

## The IPMI Would Like to Thank the Generosity of its Sponsors

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# IPMI AND REMA CALL FOR COLLABORATIVE SOLUTION TO CATALYTIC CONVERTER THEFT AMID CONCERNS OVER NDAA AMENDMENT



Recycled Materials Association  
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September 5, 2024

The Honorable Jack Reed  
Chairman  
Committee on Armed Services  
228 Russell Senate Office Building  
Washington, DC 20510

The Honorable Roger Wicker  
Ranking Member  
Committee on Armed Services  
228 Russell Senate Office Building  
Washington, DC 20510

The Honorable Maria Cantwell  
Chair  
Committee on Commerce, Science,  
and Transportation  
254 Russell Senate Office Building  
Washington, DC 20510

The Honorable Ted Cruz  
Ranking Member  
Committee on Commerce, Science,  
and Transportation  
512 Dirksen Senate Office Building  
Washington, DC 20510

**Re: S.Amendt. 2422 to S 4638: Prevention of Catalytic Converter Thefts**

Dear Chairman Reed, Chair Cantwell, Ranking Member Wicker and Ranking Member Cruz:

On behalf of the Recycled Materials Association (ReMA) and the International Precious Metals Institute (IPMI), together the preeminent trade associations for the precious metals recycled materials industry, we are writing to express our strong opposition to [S.Amendt. 2422: the Prevention of Catalytic Converter Thefts](#), originally introduced as the PART Act, being added to [S. 4638 – National Defense Authorization Act for Fiscal Year 2025](#) (NDAA).

While we share the amendment's goal of preventing catalytic converter theft, we believe the amendment as written will have unintended consequences that would be detrimental to industry. We have been actively collaborating with all relevant stakeholders to refine and improve the PART Act to better align with its intended goals. The original PART Act threatens to significantly disrupt the supply chain for critical precious metals recycled from catalytic converters. These metals are listed as "Critical Minerals" by the DOE and are essential to our nation's economy and defense – defined as such in Executive Orders 14051 and 14017, which emphasize the importance of maintaining resilient supply chains in America.

As currently drafted, the amendment could deprive the domestic U.S. smelting industry of approximately 30 percent of the raw material inputs. Each year recyclers of used automobiles across the United States lawfully purchase and process over 30 million spent catalytic converters, returning \$3 billion of precious metals to the manufacturing supply chain.<sup>1</sup> These metals are crucial for manufacturing a wide range of products from biomedical supplies, capacitors needed for data center growth, to new catalytic converter manufacturing and more. This amendment, if passed without revision, risks disrupting supply chains and undermining this vital economic activity.

We believe that limiting purchase points, mandating traceable forms of payment, and clearly defining who may legally possess detached catalytic converters are the most effective ways to eliminate the black market that fuels this crime. Our industry is committed to working alongside law enforcement agencies as part of the solution to material theft. To further this effort, we are assisting with expanding the capabilities of **ScrapTheftAlert.com**, a resource with a proven history of aiding law enforcement with recovering stolen materials and preventing thieves from selling stolen goods by allowing real-time collaboration between law enforcement and industry.

Furthermore, our organizations have been working with the bipartisan Senate and House co-sponsors of the PART Act, the committees of jurisdiction, other relevant Members of Congress, law enforcement organizations, industry and other interested stakeholders for more than a year to make critical modifications to the PART Act that will improve the effectiveness of the legislation and protect the supply chain of these precious metals. Those discussions are ongoing, but we believe we have made significant progress on key issues such as the requirement for traceable forms of payment in catalytic converter transactions and the deletion of the provision in the PART Act prohibiting the sale of partial or de-canned catalytic converters that would be devastating to the industry and prevent the crucial recycling of these precious metals. Adopting this amendment in its current form would negate the progress we have made and disregard the valuable input of those who are directly involved in this industry.

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<sup>1</sup> <https://straitresearch.com/report/platinum-group-metals-market/united-states>



For these reasons, ReMA and IPMI oppose the inclusion of this amendment in the NDAA. We urge you to consider the broader implications of S.Amendt. 2422 on the precious metals recycling industry and to work with us to find a balanced solution that addresses the issue of catalytic converter theft without jeopardizing our industry's contribution to the nation's economic and defense infrastructure.

Thank you for your attention to this important matter. We look forward to continuing our discussions with legislators and other interested stakeholders to find an effective solution to prevent catalytic converter theft.

Sincerely,



Robin Wiener  
President  
Recycled Materials  
Association (ReMA)



Larry Drummond  
Executive Director  
International Precious  
Metals Institute (IPMI)



**UPDATE**

The **PART Act** was not added to the Defense Bill.

We are in the process of scheduling meetings with various lawmakers to ensure that the bill does not get added to any legislation during the lame duck sessions following the election.

# Precious Metals & Jewelry Seminar

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The IPMI, along with The World Jewellery Confederation and the Italian Exhibition Group, is delighted to have hosted the inaugural Vicenza Jewelry Seminar during Vicenza Oro in Vicenza, Italy. This landmark event brought together experts and professionals from around the globe to engage in meaningful discussions on the latest trends and pressing issues within the precious metals and jewelry industries. The IPMI extends heartfelt thanks to its generous sponsors for their invaluable support. Additionally, we would like to express our sincere gratitude to our distinguished speakers:

**Dr. Jonathan Butler**, Head of Business Development and Strategy, Mitsubishi International Corporation

**Neil Meader**, Director of Gold and Silver, Metals Focus

**Dr. Jonathan Jodry**, Group Business Development Director, Metalor

**Alice Vanni**, CSR Director and Member of the Board of Directors, Italtrepreciosi SPA

**Damiano Zito**, CEO, Progold S.p.A.

**Alessia Crivelli**, CEO, Crivelli Gioielli

Their insightful presentations were instrumental in making the seminar a resounding success.

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The European Chapter of the IPMI has booked the venue for this year's Annual Seminar in Lisbon, Portugal. We hope to see you there!

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September 6, 2024  
TANAKA Holdings Co., Ltd.

## TANAKA Precious Metals Announces Executive Appointments

TANAKA Holdings Co., Ltd. (Head office: Chuo-ku, Tokyo; Group CEO: Koichiro Tanaka) announces that its Board of Directors tentatively decided, at a meeting held on August 19, 2024, the appointment of executives for TANAKA PRECIOUS METAL GROUP CO., LTD., which will be newly established on September 30, and group companies (TANAKA PRECIOUS METAL TECHNOLOGIES CO., LTD., TANAKA PRECIOUS METAL RETAILING CO., LTD., TANAKA ELECTRONICS CO., LTD., and EEJA Ltd.).

■ TANAKA Holdings Website  
<https://www.tanaka.co.jp/english/>

■ Press inquiries  
TANAKA Holdings Co., Ltd.  
<https://tanaka-preciousmetals.com/en/inquiries-for-media>

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SEPTEMBER 5, 2024



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New England Chapter**

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2024  
Annual Jewelry Design  
Competition**

***Christopher Liu***  
**Texas Tech University**



## Press release

### Hensel Recycling GmbH and Mastermelt Ltd Announce Strategic Collaboration to Enhance Fuel Cell and Electrolyser Recycling in Europe

**Aschaffenburg, September 6<sup>th</sup>, 2024 – Hensel Recycling GmbH, an expert in the recycling of end-of-life PGM materials and Mastermelt Ltd, a leader in the refining of complex PGM materials are pleased to announce a strategic collaboration aimed at advancing the recycling and processing of PGM-based fuel cell and electrolyser materials in Europe.**

Hensel Recycling's extensive expertise in collection, dismantling and mechanical processing of end-of-life fuel cells, combined with Mastermelt's proficiency in processing and refining of the MEAs and manufacturing scrap, will provide a robust framework for this partnership. The collaboration focuses on leveraging both companies' strengths to improve the availability and efficiency of recycling all metals and other critical raw materials from the manufacturing chain and end-of-life units.

Both companies are leaders in their respective fields, each an associate member of the LPPM, with global locations and strong customer relationships. Initially the collaboration will focus in Europe on the fast-growing hydrogen sector.

"This collaboration with Hensel Recycling is a significant step forward in our mission to enhance the sustainability and efficiency of precious metal recycling," says Dr Jamie Conway-Baker, CCO of Mastermelt Ltd. "By integrating our core capabilities, we aim to deliver a wider range of services to our customers and to support the circular economy. We are thrilled to formalize this partnership with a long-term well-respected partner in Hensel Recycling"

„We have a long-term relationship with Mastermelt and it's a natural progression to put our strength finally together," says Oliver Krestin, Managing Director of Hensel Recycling GmbH. "Both companies will bring sustainable recycling and refining solutions for critical raw materials to the hydrogen world"





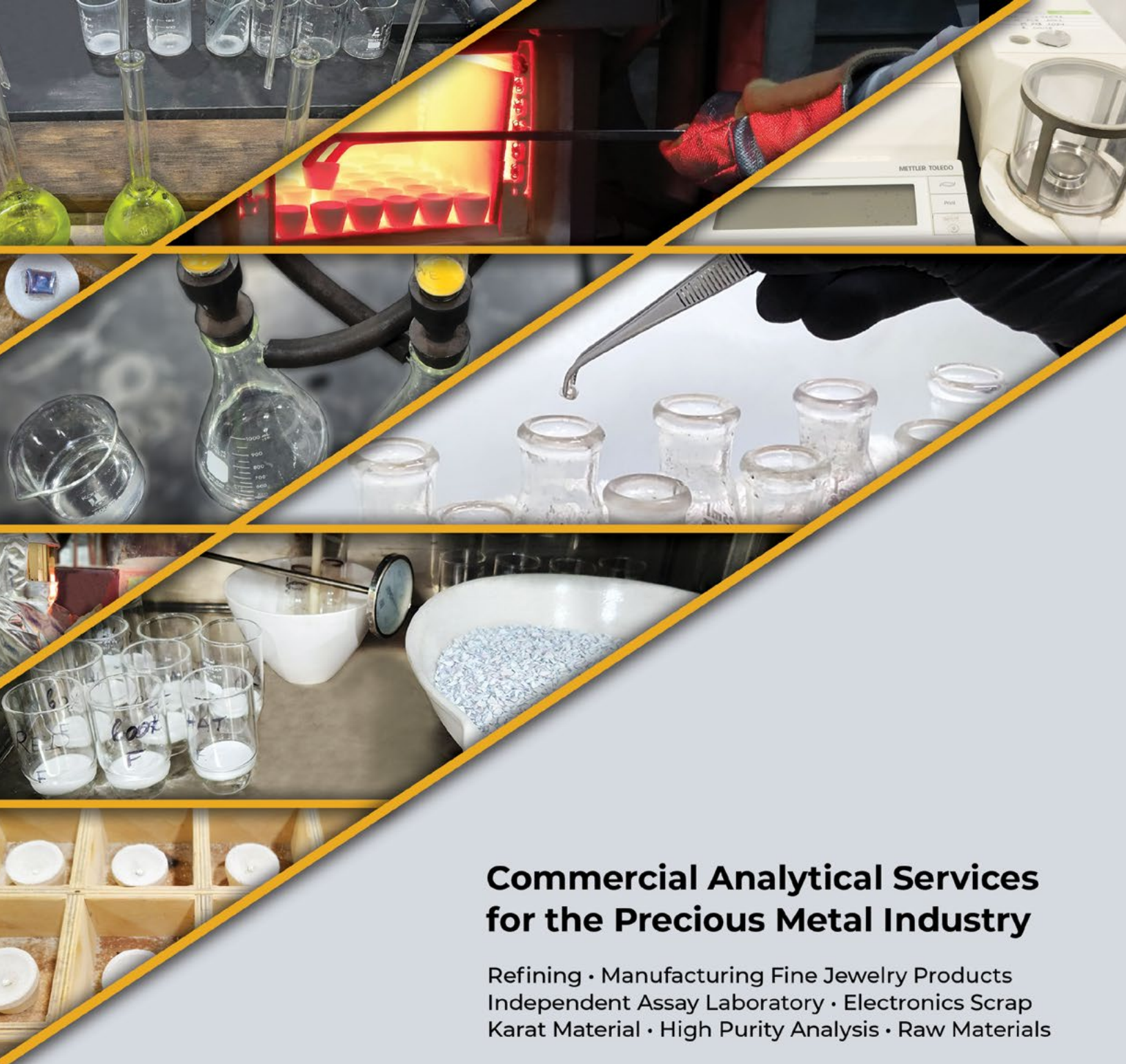
### **About Hensel Recycling**

The Hensel Recycling Group, headquartered in Aschaffenburg, Germany, has been one of the leading international companies in precious metal recycling since 1998. With more than 230 employees in nine countries, the group offers its customers a complete range of services for the recycling of materials containing precious metals, such as automotive and industrial catalytic converters, oxygen sensors, e-scrap, and critical raw materials from the hydrogen economy. Further information can be found at: [www.hensel-recycling.com](http://www.hensel-recycling.com)

### **About Mastermelt Ltd**

Mastermelt Ltd, established in 1985, is a leading specialist in the recycling of precious metals from industrial waste streams. With seven global locations, the company provides innovative solutions for recovering precious metals from a various industries, including pharmaceutical, fine chemical, hydrogen, medical, aerospace and jewellery. Mastermelt's advanced technologies and expertise ensure efficient and environmentally responsible extraction processes, maximizing the value recovered from waste for their customers. More information can be found at [www.Mastermeltgroup.com](http://www.Mastermeltgroup.com)





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**Andrew Farry**

Sr. Manager, Precious Metals Refining,  
Tanaka Precious Metals

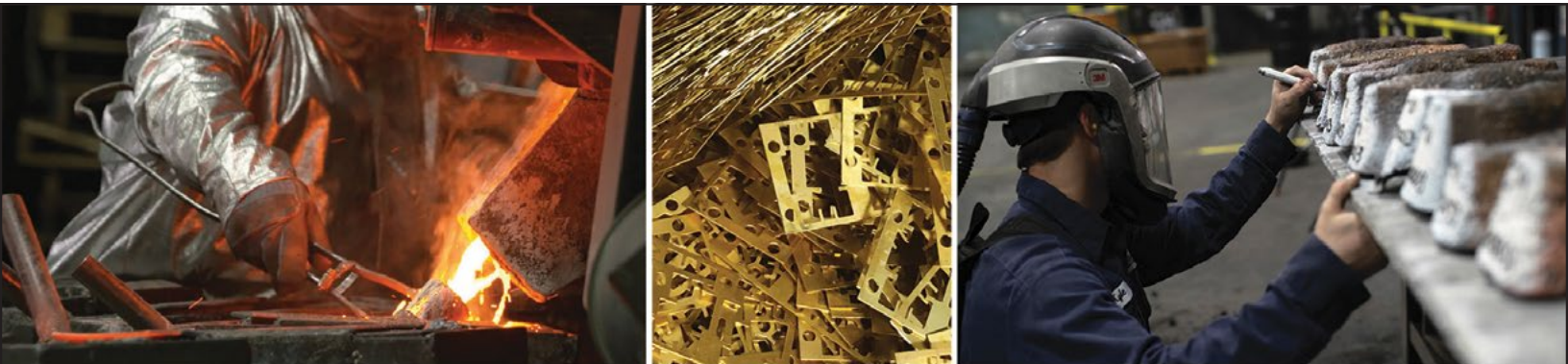
**KITCO**  
MINING //

The transition to electric vehicles and the hydrogen economy presents new opportunities for PGM recycling, said Andrew Farry, senior manager of precious metal refining at Tanaka Precious Metals.

While transition to electric vehicles and the hydrogen economy presents new opportunities for PGM recycling, challenges remain in terms of technology and the development of an efficient collection ecosystem.

Farry noted that the many of the platinum group metals are depressed due to energy transition and drop-off in catalytic converter demand. Recyclers are hanging onto PGMs, hoping for higher prices in the future

"There's quite a bit of hoarding going on," said Farry. "Industry participants that can just put the converters aside say: 'I'll wait for a rainy day, and that's my retirement fund.'"



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## New Jersey Governor Enacts Tax Exemption for Investment Bullion and Coins

New Jersey governor Philip D. Murphy has signed into law a pivotal piece of legislation, S721, which exempts sales of investment metal bullion and certain investment coins from sales and use tax. This success marks the culmination of a dedicated campaign led by the National Coin & Bullion Association (NCBA) and its coalition partners.

Investment metal bullion refers to precious metals like refined gold, silver, platinum, and palladium, where their value is based solely on their metal content rather than their form. It excludes metals used in industrial, artistic, or other specific applications. Investment coin includes numismatic coins made from metals such as gold, silver, platinum, or even non-precious metals, with a market value of at least \$1,000. It does not include jewelry, works of art, or commemorative medallions.

The new law, which goes into effect on January 1, 2025, includes a provision that exempts investment coins with a fair market value of not less than \$1,000 from sales tax. This threshold was included to address concerns from the Assembly Appropriations Committee about the potential impact on sales-tax revenue after much negotiation and careful consideration.

David Crenshaw, executive director of NCBA, praised the legislation, saying, “The passage of S721 demonstrates the positive impact of sustained advocacy and collaboration. This law benefits both consumers and the industry by removing unnecessary financial barriers, while still addressing the state’s revenue concerns.”

The success of this legislative push is owed to the tireless efforts of several key figures, including NCBA industry issues advisor Patrick Heller, who played an instrumental role in addressing concerns from the state’s Office of Legislative Services, effectively refuting flawed fiscal assumptions and providing compelling testimony. Additionally, lobbyists Patrick Torpey and Dan Smith of 1868 Public Affairs in Trenton, New Jersey, were crucial in navigating the bill through the legislative process and securing vital meetings with key decision-makers, including the governor’s assistant counsel. The legislation’s smooth passage is the result of the strategic collaborative approach taken by the NCBA and its partners, which highlights the importance of proactive engagement with lawmakers and stakeholders.

With the governor’s signature, New Jersey now joins a growing list of states offering similar tax exemptions, fostering a more favorable environment for investment in precious metals.

## GOLD NEWS



### World Gold Council predicts another leg up in gold prices

Bullish on gold, the World Gold Council anticipated that the “market could see another leg up.” The international bullion body said unlike previous periods when gold broke record highs, the market is still not saturated indicating that the gold prices may go up.

[READ MORE](#)

### India Reports Record Gold Imports in August

In July, the Indian government cut taxes on gold and silver imports by more than half, lowering duties from 15% to 6%. The domestic gold price fell 6 percent MoM after the lower duty went into effect, even as the dollar price of gold increased. As expected, the government’s move spurred a big jump in gold demand.

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### Gold prices surge as rural recovery and festive season drive strong demand: World Gold Council

Gold prices are on the rise in both international and domestic markets, driven by increased jewellery buying and investment activities. Rural demand is recovering due to a better monsoon season & higher crop sowing. Reserve Bank of India continues its gold-buying spree.

[READ MORE](#)

### Gold prices climb 1.7% after Fed’s rate cut: Gold Bullion - Dailynewsegypt

Global gold witnessed another week of gains, reaching new historic levels after consolidating its upward trend. This followed the US FED’s shift in monetary policy, which began cutting interest rates significantly.

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## SILVER NEWS



### Strategist: The higher gold goes, the more attractive silver becomes

Gold may be getting the attention, but silver might be the best play, according to a Saxo Head of Commodity Strategy Ole Hansen.

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### Silver (XAG) Daily Forecast: Strong Indian Demand and Duties Drive Prices Higher

Silver prices rise above \$31, fueled by robust Indian festive demand and a significant reduction in import duties from 15% to 6%.

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### China stimulus, mighty gold puts silver on a streak, but not without risk

China’s central bank unveiled its biggest stimulus this week since the COVID 19 pandemic and is expected cut its seven-day reverse repo rate. The U.S. Federal Reserve lowered interest rates with a half-percentage-point reduction last week.

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### Pandora completes transition to 100% recycled silver and gold

Alexander Lacik, president and CEO at Pandora, commented: “Silver and gold are our most important raw materials, and by moving to 100% recycled we reduce our climate impact significantly without compromising on quality or craftsmanship.

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## PLATINUM GROUP METALS



### Is Platinum About to Rally? | FXEmpire

Insights from the Commitment of Traders Report.

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### U.S. new vehicle sales expected to have struggled during third quarter

Sales are expected to fall roughly 2% during the third quarter compared with the same time in 2023 to about 3.9 million vehicles sold, according to Cox Automotive and Edmunds.com.

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### EU car sales at 3-year low in August, EV sales down 43.9%, ACEA says

Sales of fully electric cars slumped 43.9% in August, falling for the fourth consecutive month, as the bloc's biggest EV markets Germany and France recorded drops of 68.8% and 33.1% respectively, the European Automobile Manufacturers Association (ACEA) said.

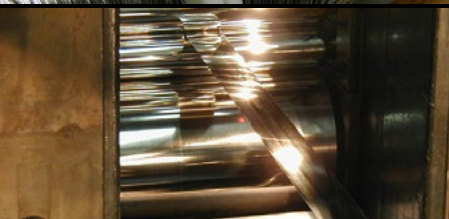
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### U.S. House votes to repeal Biden auto emissions rule

The U.S. House voted, 215-191, on Friday to roll back an Environmental Protection Agency rule strengthening standards for air pollution from car and truck tailpipes.

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## E-WASTE & PRECIOUS METALS RECYCLING RELATED



### First-person Perspective: Factors point to more recycling of precious metals

There's one very simple, unavoidable reason that global industry is at least eventually going to have to rely more heavily on recycling in order to satisfy its seemingly ever-growing demand for precious metals for its products: Several of the major mining operations around the world are in advanced stages of their life cycles.

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### US: E-waste recycling breakthrough offers 95% metal purity, 85% yield

Rice University's new method precisely controls temperature to quickly separate metals without using water, acids, or solvents.

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### Scientists Develop New Way to Recover Silver from End-of-Life Solar Cells

The global stationary fuel cells market saw annual installations reach 344.9MW in 2023, with an additional 417.9 MW forecast to be installed in 2024. Capacity additions by 2035 are forecast to reach 1,420.2 MW a year, by which time annual industry revenues will be \$4.71 billion, up from \$1.42 billion in 2023.

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### Gold ATM Unveiled in Hong Kong for the First Time

At this year's Jewellery & Gem World (JGW) Hong Kong event, KINGHOOD's international version of Smart Gold Store was unveiled in Hong Kong for the first time. Showcasing its self-developed smart gold recycling terminal and the self-service gold jewelry purchasing terminal.

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## SEMICONDUCTOR, EV, FUEL CELL RELATED



### Q2 semi revenue is a record \$162bn

Revenue for the semiconductor market is \$33 billion higher YoY and memory firms are benefitting from AI demand with quarterly revenue now exceeding \$40 billion, not all companies are growing. Over 50% of the companies tracked recorded lower semiconductor revenue compared to a year ago.

[READ MORE](#)

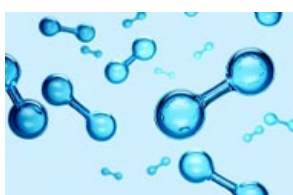
### Intel's Future Uncertain as Challenges Mount

Qualcomm's interest in buying Intel, reported on Friday by the Wall Street Journal, reflects a monumental shift in the semiconductor industry. Big companies are facing challenges from new technologies, mistakes in their plans, and changes in market demand.

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### Prepare for the Coming AI Chip Shortage

The AI-driven surge in demand for graphics processing units alone could increase total demand for certain upstream components by 30% or more by 2026.

[READ MORE](#)

### When ions go hiking: New insights into solvation kinetics at electrocatalyst surfaces

"Using this technique, we can directly access the electrosorption kinetics of hydroxide ions that occur at specific structural surface motifs, e.g., step-edges or defects, and show how they are linked to electrocatalyst kinetics.

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## HYDROGEN NEWS



### Equinor cancels blue hydrogen export strategy to Germany

Equinor has announced that it no longer plans to export blue hydrogen to Germany because the cost would be too high while the demand is still far too low to make the strategy feasible, according to a company spokesperson.

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### Stationary Fuel Cells on Track for Record-Breaking Year, Surpassing 2023 Milestone

The global stationary fuel cells market saw annual installations reach 344.9MW in 2023, with an additional 417.9 MW forecast (+21.7%) to be installed in 2024.

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### Semimetal-induced covalency achieves high-efficiency electrocatalysis for platinum intermetallic compounds

Compared with other types of batteries, proton exchange membrane fuel cells have the advantages of high discharge power and no pollution, which is also an important carrier for hydrogen energy conversion and utilization.

[READ MORE](#)



### US hydrogen economy gets another boost as SunHydrogen joins Texas Hydrogen Alliance

The company is working on the development of a method of production using solar energy and water electrolysis. By joining the alliance, it aims to become a bigger contributor to the hydrogen economy in the state as well as in the country as a whole.

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## OTHER PRECIOUS METALS NEWS



### Market reactions to results of Implats, Northam, Amplats and Sibanye

Impala's turnaround - Production was up 13% (in-line with guidance), while unit costs (+5%) were below the low end of guidance.

[READ MORE](#)



### NUM signs above inflation four-year wage deal with Impala Platinum Refineries

The National Union of Mineworkers (NUM) has reached a salary increase agreement with Impala Platinum (Implats) regarding employees at the platinum group metals miner's refinery operations in Springs.

[READ MORE](#)



### Froneman says Sibanye-Stillwater will not be "a dinosaur" - Miningmx

It was the familiar shape of Neal Froneman that took the helm at Sibanye-Stillwater's interim results presentation earlier this month, but what he had to say about a topic he normally favours was decidedly different.

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### Cash flush Harmony never better placed to grow offshore

EXECUTIVES at Harmony Gold struggled to recall the last time the company had net cash. "Not in my lifetime," CEO Peter Steenkamp said in an interview earlier this month.

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## SAC Symposium IV

October 13-16, 2024  
Colorado School of Mines  
Golden, Colorado

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## New England Chapter Event

November 7, 2024  
Location TBD



## 2024 European Chapter Annual Seminar

November 17-19, 2024  
Sheraton Lisboa Hotel & Spa  
Lisbon, Portugal

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## Legislative and Regulatory Affairs Conference

January 28-29, 2025  
Army Navy Club  
Washington D.C.

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## IPMI Winter Meetings

February 18-20, 2025  
Hyatt Grand Cypress Resort  
Orlando, Florida



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## **IPMI 49th Annual Conference**

June 7-10, 2025  
The Phoenician Resort  
Scottsdale, Arizona



## **IPMI 50th Annual Conference**

June 6-9, 2026  
Hyatt Grand Cypress Resort  
Orlando, Florida



## **IPMI 51st Annual Conference**

June 12-15, 2027  
The Phoenician Resort  
Scottsdale, Arizona



## **IPMI 52nd Annual Conference**

June 10-13, 2028  
JW Marriott Bonnet Creek  
Orlando, Florida



## **IPMI 53rd Annual Conference**

June 9-12, 2029  
The Phoenician Resort  
Scottsdale, Arizona