

PRECIOUS METALS NEWS

THE 2024 LEGISLATIVE CONFERENCE



PLUS

The 2024

**WINTER
MEETING**

In February

AND

• Latest Industry News





LEGISLATIVE & REGULATORY AFFAIRS CONFERENCE



THE ARMY AND NAVY CLUB · WASHINGTON, DC · JANUARY 30-31, 2024



AGENDA

Tuesday, January 30th

Afternoon Session I

1:30 PM

Welcome and IPMI Update

Larry Drummond, IPMI
Michael Brosius, Mitsubishi Corporation

Regulatory Outreach - Trading Rules

Erin Middleton, CME

Precious Metal Markets Update

Neil Meader, Metals Focus
Mike DiRienzo, The Silver Institute

3:15 PM

Break

Sponsored by United PMR

Afternoon Session II

3:30 PM

Hydrogen, Fuel Cells and PGM Demand

Kunro Irie, Center for Strategic and International Studies

Critical Minerals and Metals Activities

John Meakem, Critical Minerals and Metals Industry & Analysis
US Department of Commerce

PART Act and IPMI Lobbying Progress

Rick Spees, Akerman LLP

5:00 PM

Reception

Sponsored by FidelityTrade

6:00 PM

Seafood Buffet

Wednesday, January 31st

8:00 AM

Continental Breakfast

Sponsored by Sabin Metals Corporation

Morning Session I

9:00 AM

Euro 7 and PGM Impact

Dirk Bosteels, Joachim Demuyneck
Association for Emission Control Catalyst (AECC)

Silver: Ongoing Regulatory Challenges in the EU

France Capon, European Precious Metal Federation

10:00 AM

Break

Sponsored by PMR

Morning Session II

10:15 AM

Adherence to Sound Practices in the Precious Metals Market With Continuous Learning

Rui Correia, ACI FMA

Washington Update

Paul Miller, Miller Wenhold LLP

12:00 PM

Lunch

Sponsored by Techemet

1:30 PM

Conference Ends

**Reserve your spot!
Space is limited**

Registration:

Members \$425

Non-Members \$525

REGISTER



HYATT
REGENCY

2024 WINTER MEETING



ORLANDO, FL

FEBRUARY 20-22, 2024

AGENDA

Tuesday, February 20th
Security and Anti Money
Laundering Day (SECAM)

Wednesday, February 21st
PGM Refining Day (PGMRC)

Thursday, February 22nd
Sampling and Analytical Day (SAC)

** Sponsorships are Available. Please contact Sandra
at mail@ipmi.org for more information.*



Early Registration

Until January 8, 2024

Duration	For Members	Non-Members
1 Day	\$525	\$625
2 Days	\$800	\$900
3 Days	\$900	\$1000

Last Day for Early Registration is 01/08/24
Until January 8, 2024

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To secure the special IPMI discounted room rate, please book your registration using this link instead of going through the hotel or third-party websites. IPMI rate is \$289.

By booking with this link, you will not incur the \$45 daily Resort Fee. This will also help IPMI meet its contractual obligation for rooms.

REGISTER EARLY

BOOK YOUR ROOM



AGENDA

Tuesday, February 20th

Security and Anti Money Laundering Day (SECAM)

Technical Program Sponsored by Hugh Wood

8:00 AM

Continental Breakfast

Sponsored by Metalor

9:00 AM

Welcome and Introductions

Larry Drummond, IPMI

9:15 AM

Session A: Precious Metals Security

Insider Threat Awareness Presentation and Panel Discussion

Sampling is a Risk Management Tool

Mark Caffarey, Umicore

– Panel discussion:

Normadene Murphy, BASF-ECMS

Mark Caffarey, Umicore

Monica Mellas, Materion Corp.

10:00 AM

The Security Impact of Current Geo Political Issues

Safety of Employees During Travel

David Ickes, Global Guardian

10:30 AM

Break

Sponsored by IBI

11:00 AM

Community Partnerships- The Value of Collaboration

Scott Johnson, Mastermelt

11:30 AM

Protecting High Value Cargo - A Sense of Security

Scott Volpe, IBI

12:00 PM

Lunch

** Sponsorship is Available **

1:30 PM

Session B: Responsible Sourcing

AML Compliance 2024

Corporate Transparency Act/

Beneficial Owner Registry

Peter Quinter, Gunster

2:00 PM

AML Audit/Testing Presentation and Panel Discussion

Sara Yood, Jewelers Vigilance

Committee

Steve Crogan, Blue Water Risk

Management

2:30 PM

Responsible Sourcing

Chain of Custody Certification

LBMA Responsible Silver Guidance

Version 2

Presenter being finalized

3:00 PM

Break

** Sponsorship is Available **

3:30 PM

Lessons Learned from AML Investigations

TBD, AMI Investigations

4:00 PM

Identifying Red Flags from AML Investigations A Panel Discussion

Randy Weinerman, Moderator

Raysa Garcia, United PMR

Heather Wood, PGM of Texas

Steve Crogan, Blue Water Risk

Management

4:30 PM

Preventing Auto Catalyst Theft Committee Update

Becky Berube, United Catalyst

Corporation

6:00 PM

Reception

Sponsored by Sabin Metal



AGENDA

Wednesday, February 21st

PGM Refining Day (PGMRC)

Technical Program Sponsored by Hensel Recycling

8:00 AM

Continental Breakfast

** Sponsorship is Available **

8:45 AM

Welcome and Introductions

Larry Drummond, IPMI

9:00 AM

Session A: PGM Markets & Recycling

PGM Market Update

– PGM Supply

Jacob Smith, Metals Focus

– PGM Market Update

Jonathan Butler, Mitsubishi Metals

– Panel Discussion: PGM Market Outlook

Sandeep Kaler, SFA Oxford

Jacob Smith, Metals Focus

Craig Ostroff, BASF

10:15 AM

Break

** Sponsorship is Available **

10:30 AM

The Autocatalyst Recycle Market

Doldrums- What's Driving the Recycle Downturn?

Moderator, Craig Ostroff, BASF & IPMI

PGMRC Committee Chair

– Panel Discussion

Ben Davis, Davis Recycling/CC Refining

Billy Galligan, PGM of Texas

John Keating, LKQ

Scott Kinsbursky, KBI

Oliver Krestin, Hensel Recycling

Germany

George Lucas, Accurate Converter

11:45 AM

PGM and MMO Recycle Updates

Matt Davis, Mastermelt

12:00 PM

Lunch

Sponsored by Metalor

1:30 PM

Session B: Precious Metals in Clean Energy

Introduction of IPMI Working Group and Charter

Jonathan Butler, Mitsubishi Metals

Matt Watson, Precious Metals

Commodity Management, LLC (PMCM)

1:45 PM

H2 Update...Why This is Good...Cost & Viability Update

Sandeep Kaler, SFA Oxford

2:15 PM

Iridium and Silver in Clean Energy

Matt Watson, Precious Metals

Commodity Management, LLC (PMCM)

3:15 PM

Precious Metals in Clean Energy - Working Group Path Forward

Jonathan Butler, Mitsubishi Metals

Matt Watson, Precious Metals

Commodity Management, LLC (PMCM)

3:30 PM

Break

Sponsored by BASF

3:45 PM

Session C: Clean Energy Issues and Opportunities

Lion Battery Project Update

Dr. Bilal El-Zahab, Florida International

University

4:15 PM

REEgen – Creating Domestic Abundance of Rare Earth Elements

Simone Balog-Way, REEgen

6:00 PM

Reception

Sponsored by BASF

8:00-9:30 PM

The IPMI Coffee House



AGENDA

Thursday, February 22nd

Sampling and Analytical Day (SAC)

Technical Program Sponsored by Sims Precious Metals

7:30 AM

Continental Breakfast

Sponsored by Axiom Scientific

8:45 AM

Welcome and Introductions

Larry Drummond, IPMI

9:00 AM

Session A: IPMI SAMPLING WORKSHOP

Know Your Sampling – A Deep Dive into the Professional and Accurate Sampling for Analysis of Precious Metals

Prof. Kim H. Esbensen, KHE Consulting

10:30 AM

Break

Sponsored by Bureau Veritas

10:45 AM

Session A: IPMI SAMPLING WORKSHOP continues

12:30 PM

Lunch

Sponsored by Techemet

1:30 PM

Session B: SAC Updates and Planning

SAC Committee Updates and Round Robin Discussion

Algis Naujokas, Sabin Metal Corporation
Stacey Santolli, BASF-ECMS

2:00 PM

Session C: Innovation and Optimization Spectrophotometric, Gravimetric and Potentiometric Methods for the Determination of Iridium

Lou Britton, Auris Noble

2:30 PM

The Use of Hydrofluoric Acid for the Gravimetric Determination of Low-Level Gold in Copper Bullion

Algis Naujokas, Sabin Metal Corporation

3:00 PM

Break

** Sponsorship is Available **

3:15 PM

ICP Analysis: Tips and Tricks

Ashley Jones, Inorganic Ventures

3:45 PM

Session D

Closing of the Winter Meeting and Future Plans for the SAC

Algis Naujokas, Sabin Metal Corporation
Stacey Santolli, BASF-ECMS



Prof. Kim H. Esbensen

KHE Consulting

<https://kheconsult.com/>

Recycling and trading of precious metals is critically dependent on the ability to conduct representative sampling-for-analysis. All materials to be sampled, e.g. catalytic converters, jewelry scrap, catalytic gauzes, scrap of wires, bushings, other primary materials pose identical challenges for sampling - they are significantly heterogeneous!

- Are you confident you can always extract documentable representative samples?
- How to extract samples from moving materials (process sampling)?
- Choosing the optimal analytical approach is intimately related to the quality of sampling.
- Did you ever contemplate that different sampling approaches will give rise different analytical results?
- What to do when analytical results from two labs differ significantly?

The presenter of this workshop has recently conducted a thorough critique of the "Assay Exchange" paradigm, with worrying conclusions. This workshop points to the only approach for representativity, the Theory and Practice of Representative Sampling (TOS) and will leave you with valuable documentation relative to the precious metal industry. The IPMI wants you to be introduced to a world sampling expert with an in-depth understanding of the most relevant details of TOS.



The IPMI Would Like to Thank its Website Sponsors



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PMR Inc. is a catalytic converter processor specialized in the recovery of platinum, palladium, and rhodium from spent auto catalysts. We offer an exclusive suite of comprehensive tools, customized business solutions, and global support from an internal team of converter experts. In today's unique market conditions, PMR is strategically positioned to propel our suppliers and our industry to the next level.

Leading the Way

As CEO and president of PMR inc., Christian drives the enterprise with innovative and entrepreneurial instincts. The experience he's gained from his years in auto repair shops and on the racetrack made him an expert in fine-tuning the machine to achieve maximum success.

He transfers this expertise into PMR, where he advocates for constant calibration and adjustments to optimize our machinery and our business model. His devotion to the business and his heart for the race make him a customer-centric leader committed to delivering sustainable and profitable solutions to the industry at large.

Navigating Industry Challenges

There's a general sense of unease in the market currently. Ongoing labor strikes at Detroit's major auto manufacturers are creating tension in the automotive supply chain. Market volatility is shaping a challenging environment for non-ferrous metal recyclers who were used to 2021 prices. In the face of these short-term difficulties, however, PMR equips recyclers with a long-term perspective, allowing them to maintain a strategic advantage.

With our customized business solutions, suppliers get unique tolling opportunities and hedging options that allow them to mitigate market risks. Exclusive buying, tracking, and monitoring tools allow suppliers to ensure volume growth and manage their operations systematically.



The Power of Data

In this industry, knowledge is power, and PMR fully comprehends the strategic edge that valuable data and insights provide. We equip our corporate partners with quarterly reports, customized portfolios showcasing the progression of their materials, their returns, and their operations. These consultative services and resources empower suppliers with the knowledge they need to take on the next quarter strategically.

Driving Progress

In 2022, we developed cutting-edge machinery that streamlines toll-refining steps and maximizes processing efficiency. Converters are now graded, decanned, and crushed in a single step, reducing processing delays across all our facilities. In the next 12-18 months, PMR will achieve an unprecedented 5-day turnaround rate, allowing suppliers to receive faster returns on their investments.

While PMR maintains a long-term perspective, we acknowledge that current market conditions may require recyclers to prioritize other areas over converter ventures. The fact remains that converter recycling is an immensely profitable field, and every opportunity to make the most revenue for your enterprise should be seized. When you're ready to elevate your converter operations, we'll be here to assist you.

Locations:

PMR HEADQUARTERS

4640 Boulevard de la Grande-Allée Boisbriand, QC CANADA J7H 1S7

PMR MIRABEL, QC

11775 Rue Service A 3 Mirabel, QC CANADA J7N 1E6

PMR NEVADA

3824 N 5th Street, Unit D North Las Vegas, NV USA 89032



New England Chapter Fall Networking Event

November 2, 2023

Iron Works Tavern. Warwick, Rhode Island



EUROPEAN PARLIAMENT REPORT ON EURO 7 FALLS SHORT FOR BETTER AIR QUALITY

Brussels – 9 November 2023

The Association for Emissions Control by Catalyst, AECC AISBL, noted the European Parliament today adopted its report on the Euro 7 legislative proposal for cars, vans, trucks and buses.

The **European Parliament significantly weakens the Euro 7 proposal of the European Commission in parallel to delaying its implementation**. This is in contrast with its own report on the Revision of the Air Quality Directive from 13 September 2023, where the European Parliament requests higher ambition than the proposal from the European Commission. As a consequence, Euro 7 would fall short as a supporting tool for better air quality. For example, only minor adjustments are made to test conditions. Especially for heavy-duty vehicles, Euro VI test procedures are nearly kept, not addressing significant shortcomings for cold-start and low-load operation in urban environments.

However, in contrast to the Council's General Approach on Euro 7 dated 25 September 2023, the **European Parliament report retains key overarching objectives of Euro 7** from the Commission Proposal. It maintains setting fuel-neutral limits for light-duty vehicles, and allows shorter trips with the application of an emissions budget up to 10 km. It also keeps the PN10 procedures developed at UNECE and which are already adopted and endorsed by the EU.

AECC calls on the co-legislators to maintain these key overarching objectives for exhaust emissions of vehicles during the Euro 7 trilogue. These are necessary to develop Euro 7 with a minimum sensible level of ambition. Millions of vehicles with internal combustion engines will be sold in the next decades and these should contribute to air quality improvements.

AECC encourages the co-legislators to continue working on swift adoption of Euro 7 before the upcoming EU elections in June 2024. This is necessary to enable a prompt implementation of the new Euro 7 legislation. Such implementation of a robust Euro 7 is necessary, feasible, affordable and will make Europe more competitive, as can be seen in AECC's fact sheet on Euro 7 [here](#). AECC has demonstrated that emission control technologies to achieve the originally proposed Euro 7 exhaust emissions standards are available today.

For more information, please contact info@aecc.eu.

AECC is an international non-profit scientific association of European companies operating worldwide in the research, development, testing and manufacture of key technologies for emissions control. Their products are the ceramic substrates for catalysts and filters; catalysts (substrates with catalytic materials incorporated or coated); adsorbers; filter-based technologies to control engine particulate emissions; and speciality materials incorporated into the catalyst or filter. Members' technology is integrated in the exhaust emissions control systems of cars, commercial vehicles, buses, non-road mobile machinery and motorcycles in Europe.

More information on AECC can be found at www.aecc.eu

AECC's members are: Emitec Technologies GmbH, Germany; Johnson Matthey PLC, United Kingdom; NGK Europe GmbH, Germany; Solvay, France and Umicore AG & Co. KG, Germany.

AECC is registered in the EU Transparency Register under n° 78711786419-61.

Euro 7: EU Parliament weakens EU Commission's proposal

- On Thursday, 9th November 2023, lawmakers in the European Parliament [adopted](#) a position on the Euro 7 non-CO2 emissions rule for cars, vans and trucks that waters down crucial elements of the EU Commission's original proposal.
- MEPs (Members of the EU Parliament) agreed to set fuel emissions limits at the lowest level permissible under current regulations, arguing that further reductions would force carmakers to spend money developing new fossil fuel engines, which are being banned in 2035, instead of on development of electric vehicles.
- Lawmakers from the EU Parliament will now enter interinstitutional negotiations ('trilogue') with the European Commission and the European Council, which includes top ministers from EU countries, with the possibility to close the deal before the end of this year.
- IPA and AECC will monitor and carry out advocacy activities during trilogue and keep their members informed.



Relevance for PGM industry

- EU Parliament delayed the timeline proposed by the EU Commission for the Euro 7 non-CO2 emissions rule by at least two years to give the car industry more time for implementation.
 - In terms of limits for nitrous oxides (NOx) and carbon monoxide, Parliament has voted in favour of the Euro 6 limits continuing to apply but without the previous distinction between petrol and diesel cars.
 - Testing requirements for cars, vans and trucks were weakened and exhaust emission limits for trucks and vans lowered.
 - The Parliament however toughened rules for particulate emissions: for the first time limits will apply on particulate emissions from brakes and tires, for both internal combustion engine vehicles and EVs.
 - Euro 7 introduces a set of standards to guarantee the minimum durability and performance of batteries for all electrified vehicles.
 - An attempt by the European People's Party, the European Conservatives and Reformists and some members of Renew and Socialists & Democrats to include a carbon correction factor and mention carbon neutral fuels (e-fuels) was rejected.
-
- As the Parliament voted on its position on the Euro 7 non-CO2 legislation, it drew mixed reactions ranging from relief to disappointment (*see next pages for stakeholder comments*).
 - "We have successfully struck a balance between environmental goals and the vital interests of manufacturers. It would be counterproductive to implement environmental policies that harm both Europe's industry and its citizens," Alexandr Vondra of the European Conservatives and Reformists, the lead MEP on the file, said in a statement after the vote.
 - Vondra's narrative was that if the Commission's proposal had been adopted, carmakers would have eliminated small cars from their fleets, forcing "poor people" to either ride bicycles or buy cheaper second-hand cars that are more polluting than Euro 6. "The environment and air standards would have been worse, not better," he said.
 - Alexandr Vondra believes that trilogue discussions now have two options — either more stringent emissions limits that take effect later, or less stringent emissions limits with an earlier effective date.
 - The position passed in the plenary with 329 votes in favor and 230 against.
-
- It was backed by Vondra's European Conservatives and Reformists, the European People's Party, Renew, as well as the far-right Identity group and rejected by Socialists & Democrats, the Left and the Greens.
 - MEPs rejected an effort by ECR, the EPP and the some Renew and S&D members to add a recital on carbon-neutral fuels into the non-CO2 pollutant legislation.



EUROPEAN PARLIAMENT REPORT ON EURO 7 FALLS SHORT FOR BETTER AIR QUALITY
Brussels - 9 November 2023

AECC, the Association for Emissions Control by Catalyst, commented in a statement ([see PDF](#)) that while the Parliament had weakened the Commission's proposal, it was still better than the Council's because it adheres to the Commission's emissions limits for cars, and allows for shorter trips by applying an emissions budget up to 10 kilometres.

What is next

- The trilogue has already started in "written form".
- There will be two rounds of talks: one at the end of November and the other mid-December in Strasbourg.

Further reading: selection of news reports can be found on the next pages.

EU set to weaken Euro 7 pollution standards after parliament vote (*Europe Autonews*)

The European Parliament joined the European Council in approving a weaker version of the rules. The two EU bodies will now negotiate with the European Commission on the final text.

- The European Parliament has approved its negotiating position for the Euro 7 pollution rules, adopting a position that is less ambitious than the original proposal following pressure from countries and automakers.
- The parliament will now enter into "trilogue" negotiations over the final document with the European Commission and the European Council, which includes top ministers from EU countries. Approval could come as early as the start of 2024, with the regulations going into effect no earlier than 2026 for passenger cars and 2027 for heavy trucks.

Car industry said: too costly

- Euro 7 would replace the current Euro 6 standard, which governs emissions of pollutants from combustion engine cars. The EU Commission, which drafts EU laws, has said the health benefits would far outweigh the costs.
- Automakers and countries including Italy and the Czech Republic have argued the original rules proposed by the Commission would have been too costly. They say since the EU already has a deadline to end sales of new CO2-emitting cars in 2035, it would be better to focus investment on producing electric vehicles rather than improving combustion engine cars' environmental impact.

Same limits & coming later

- Lawmakers on 9 November voted to keep the Commission's proposal for limits on pollution from cars, including nitrous oxides (NOx), particulate matter and carbon monoxide. That proposal, released in November 2022, essentially retains the limits from Euro 6, but also includes for the first time limits on particulate emissions from brakes and tires.
- But they weakened NOx limits for trucks, and delayed when the rules will apply -- for cars, to three years after all secondary legislation associated with the proposal is passed. The Commission had wanted the rules to apply from 2025.
- EU countries, in the form of the council, and lawmakers in the Parliament have each agreed to weaken the rules. The council [voted in September](#) to extend most existing Euro 6 test conditions and emissions limits for cars and vans, although they will be lower for buses and heavy vehicles.

Auto lobby backs Parliament and Council

- ACEA, the European automakers' lobbying group, on Thursday 9 November, said the parliament's position was "a more realistic approach to Euro 7" than the Commission's original proposal. "Euro 7 still comes with a heavy price tag and at a very critical juncture in the industry's transformation," the group said.
- Environmental group Transport & Environment on Thursday described the parliament's position on Euro 7 as "worse than useless."
- "The EU Parliament backed a so-called 'Euro 7' standard that fails to significantly increase air pollution protections beyond its Euro 6 predecessor," the group said.

- Alexandr Vondra, the parliament's lead lawmaker on the rules and a member of the right-wing European Conservatives and Reformists group, said the decision on Thursday was good for motorists and a "major defeat" for Green and Socialist lawmakers who had sought stricter rules.
- "The EU is missing the opportunity to be the future leader in green technology," said Bas Eickhout, a Green EU lawmaker, in contrast.

Following text is part of an article by www.supplychainbrain.com

- In a 7 November report, [The Guardian](#) said experts claim the watered-down law could lead to \$107 billion in environmental and health costs.
- About half of the projected financial savings from the Euro 7 standards on car emissions law will be lost due to damage caused by excess production of nitrogen dioxide, based on an analysis provided by the Consortium for Ultra-low Vehicle Emissions (Clove).
- Clove experts initially recommended reducing the amount of nitrogen dioxide that vehicles are allowed to emit. However, an agreement signed by the EU's 27 member states in September would have done little to limit the amount of nitrogen dioxide produced by cars.
- Automakers argued that the proposal was "entirely disproportionate, driving high costs for industry and customers with limited environmental benefits," leading them to lobby for the proposition to be watered down.

Political trade-offs...?

- Several sources (e.g. [NGO T&E](#)) said that the lower exhaust emissions limits were traded off during a secret meeting in 2022 in order to secure industry support for the phasing out of combustion engines in the EU by 2035.

Above statement was made in the article by supplychainbrain.com and can not be verified by IPA.

Abgasnorm Euro 7 nur noch ein „Schatten“ - Autolobby bringt Europa angeblich um 100 Milliarden Euro (*Frankfurter Rundschau*)

Original article in German ([link](#)) — machine translated and edited version below.

Euro 7 emissions standard only a "shadow" - car lobby allegedly deprives Europe of 100 billion euros

The Euro 7 emissions standard will only be introduced in a weakened form - and high levels of pollutants will continue to exist for a long time to come. A report illustrates the drastic effects.

- At the end of September 2023, EU member states voted in favour of significantly weakened requirements that deviate greatly from the original intentions. In the EU Competition Council, government representatives voted in favour of a compromise that provides for lower emissions standards for combustion engines than originally proposed.
- Germany was one of the countries that voted against the proposal - the German government was in favour of stricter emissions standards for cars.



- However, the draft that was then adopted hardly goes beyond previous regulations and would therefore not fulfil the necessary requirements to protect the environment and people.
- The EU member states' proposal for the Euro 7 standard was "virtually back to the level of Euro 6", said Sven Giegold, State Secretary in the Federal Ministry of Economics and Technology, who was participating on behalf of the German government, in the Competition Council.
- According to Agence France-Press (AFP), the requirements for the test conditions remain unchanged compared to Euro 6. "This is unambitious, we are below the current state of the art," explained Giegold. The planned Euro 7 emissions standard has apparently been weakened to such an extent that the industry hardly has to make any effort to fulfil it.

More pollutants with Euro 7 standard - damage of around 100 billion euros?

- A report in German magazine [SPIEGEL](#) explains the drastic effects. Regarding the limit values, the weakened Euro 7 proposal is only a "faint shadow" of the previously discussed regulation.
- The consequence: although cars with combustion engines will be banned from sale from 2035, millions of new vehicles will still be on the roads by then - without the current emission standards for petrol and diesel models having to be further optimised by manufacturers. This will save the industry a lot of money on development and production, but society and the environment will pay the price, according to a report.
- The Consortium for Ultra Low Vehicle Emissions ([CLOVE](#)) analysed the effects of the weakened Euro 7 emissions standard for SPIEGEL and the Voxeurop portal and came to a shocking conclusion: the damage to health and the environment will cost the European population around 100 billion euros in the period between 2025 and 2050 ([link](#)).
- The report points out that the committee is not some kind of "eco-lobby" - but an advisory body of experts engaged by the EU Commission, some of whom also work in the car industry.

Allegations: car lobby probably manipulating EU Parliament over emissions standard?

- The calculation is based on a comparison of the original regulation draft, in which new cars would only have been allowed to emit 20 instead of 60 milligrams of nitrogen oxides per kilometre from 2025.
- The amount of pollutants from the exhaust pipes of petrol and diesel cars will continue to be assessed mildly in the future and laboratory tests will continue to be carried out under less than realistic conditions.
- In addition, the companies are to be given years to adapt to less stringent regulations.
- The European Automobile Manufacturers' Association (ACEA) is also at the centre of the accusations. According to the SPIEGEL report, it made misleading statements about the conversion of combustion engines under the pretext that this would jeopardise Europe as an industrial production location and hamper affordable mobility.

Costs lower than claimed by automotive manufacturers

- As the CLOVE experts explain, technical optimisation of current combustion engines would require far less financial outlay than the car manufacturers claim.
- Rather, "larger catalytic converters and better filters" would be sufficient to further reduce exhaust emissions.
- The surcharge for a corresponding Euro 7 proposal would therefore amount to just 90 to 150 euros per car, but member states have rejected even this proposal and initiated a weaker emissions standard.

Euro 7: serious accusations against car lobby by NGOs

- In the wake of the Euro 7 emissions standard, environmental associations are also sounding the alarm: the position of the Competition Council is "a disaster for air quality", according to the non-governmental organisation Transport & Environment (T&E).
- Instead of reducing pollution, current Euro 6 vehicles are being sold as greener Euro 7 cars, according to Anna Krajinska, who is responsible for vehicle emissions at T&E.
- Krajinska asked lawmakers to at least have the "decency" to rename the measure Euro 6F. (An amendment to that effect was proposed by The Left and the Greens, but was rejected in the plenary vote.)
- Research by SPIEGEL even revealed that passages from a lobby email can apparently be found almost verbatim in an amendment that is considered a compromise solution by a majority in the European Parliament.
IPA shared behind-the-scenes information around ACEA's email with the "IPA POLITICO" mailing list.
- Jens Gieseke, transport policy spokesman for the German CDU/CSU group and member of the European People's Party (EPP), is partly responsible for the "soft line" at parliamentary level: "We are preventing an additional burden on industry, which already has to cope with the switch to electromobility. Maintaining competitiveness and jobs in the EU is a priority for us as the EPP," German tabloid "Bild" recently quoted the Union politician. German manufacturers also campaigned against the original plans.

Background

EU member states against stricter emissions standard - France and Italy as drivers

- A group of eight member states including France and Italy had campaigned against new emissions standards for combustion cars. New rules are not necessary because the decision to phase out the combustion engine has already been made, French Industry Minister Roland Lescure said. The Italian Minister for Economic Affairs, Adolfo Urso, explained that the new standard should not result in excessive costs for car manufacturers against the background of competition from countries such as China.
- The European Automobile Manufacturers' Association (ACEA) welcomed the agreement reached by the EU member states. However, the Euro 7 standard will require high additional investment from car manufacturers, even in a watered-down form, explained ACEA Director Sigrid de Vries.

EU Critical Raw Materials Act: Negotiators reach political deal

- On 13th November 2023, the EU Parliament, Council and Commission reached a political agreement in their triilogue negotiations on the Critical Raw Materials Act (CRMA). This means that the framework conditions of the legal text have been established. The three parties will negotiate the final details at technical level now within coming days.
- The agreement needs to be formally adopted by the Parliament's plenary and ministers before the rules can enter into force.
- The Critical Raw Material Act, together with the Net Zero Industry Act and the Reform of the electricity market design is one of the flagship legislative initiatives of the Green Deal Industrial Plan that the Commission presented on 1st February 2023.
- The Critical Raw Materials Act, presented by the Commission in March, aims to make it easier for EU countries to tap into domestic reserves by speeding up permitting procedures and sets out criteria for partnerships with third countries. The overall aim is to strengthen a secure and sustainable supply of raw materials for the EU.

Relevance for PGM industry

- The initial proposal of the EU Commission included targets of 10% for the extraction of domestic raw materials and 40% for processing in Europe. These benchmarks remained unchanged. The benchmark for recycling, however, has been increased from 15 percent to at least 25 percent of the EU's annual raw material consumption.
- In addition, the recovery of raw materials contained in waste is to be significantly increased.
- The Commission is to present a report on the estimated consumption of each critical raw material for the next three decades 18 months after the regulation comes into force.
- The reporting obligations, particularly for medium-sized companies, have been simplified compared to the draft.

- The European Commission, the European Parliament and the Council of the EU on 13th November struck a deal ([Council press release](#)) on the EU's plan to diversify its supply of critical raw materials, needed for green and digital transition technologies, away from China.
- In its initial proposal, the EU executive floated a target of extracting at least 10 percent of the bloc's annual consumption of select critical raw materials domestically. It also proposed processing at least 40 percent of its consumption, and recycling at least 15 percent by 2030. Negotiators agreed to increase the recycling target to at least 25 percent.
- They also agreed to limit permitting procedures to 27 months for extraction projects and 15 months for processing and recycling projects.
- The act's aim is that no third country should provide more than 65% of any strategic raw material, such as PGMs.
- Nicola Beer, a German lawmaker with the liberal Renew group who leads work on the file in the Parliament, called the final result "an industrial policy blueprint for a secure and sustainable supply of raw materials in Europe."
- The act, she argued, will "boost mining, processing and recycling in Europe" and "make the EU an attractive partner in geopolitical competition — with real benefits for both sides and strong protection for local communities and nature."



They negotiated the CRMA at political level: Spain's Deputy Permanent Representative Raúl Fuentes Milani, EP rapporteur Nicola Beer, Internal Market Commissioner Thierry Breton and ITRE Chairman Cristian Buşoi.

- "The agreement reached in record time is an industrial policy blueprint for the secure and sustainable supply of raw materials in Europe", said Nicola Beer (Renew).
- The quick result comes as no surprise; from the outset, there was a fundamental political consensus on the CRMA and a rapid pace in the legislative process.
- The agreement needs to be formally adopted by the Parliament's plenary and ministers before the rules can enter into force.

Find on the next page more details of the reached agreement. →

Relevant details of the CRMA provisional agreement

- “Without action, Europe risks supply shortages and unwanted dependencies,” said Thierry Breton, the EU’s internal market Commissioner.
- The new Critical Raw Materials law will also ensure “the highest environmental and social standards,” he added in a [statement](#), saying the Commission will now “work with EU members to identify strategic projects that will benefit from shorter and more efficient permitting procedures and easier access to finance”.

Strategic materials, critical materials, strategic projects...

- According to the provisional agreement, one critical raw material (aluminium) will also be included in the list of strategic raw materials (thus 34 critical and 17 strategic raw materials). In addition to natural graphite, which is already included in the list, synthetic graphite will also be considered a strategic raw material for a period of three years until the first revision of the list.
- The focus on graphite reflects [China’s plan to tighten export controls for graphite](#). China refines over 90% of the world’s graphite into material that is used in almost all electric vehicle anodes, the negatively charged portion of the battery.
- Projects that contribute to the substitution of strategic raw materials with alternative raw materials should also qualify as strategic projects.
- Member states should have the opportunity to raise objections if a strategic project is implemented in their country.

Background on Strategic and Critical materials

- The category “strategic” was a new category included in the proposed act.
- It states the list of *strategic raw materials* “should contain raw materials that are of high strategic importance, taking into account their use in strategic technologies underpinning the green and digital transitions or for defence or space applications, that are characterised by a potentially significant gap between global supply.”
- The strategic list includes bismuth, boron (metallurgy grade), cobalt, copper, gallium, germanium, lithium (battery grade), magnesium metal, manganese (battery grade), natural graphite (battery grade), nickel (battery grade), **platinum group metals**, rare earth elements for magnets, silicon metal, titanium metal and tungsten.
- *Critical raw materials* are defined as those which are of high importance for the overall EU economy and also subject to a high level of supply risk.
- All of the strategic raw materials are also included on the updated critical material list, which also covers antimony, arsenic, bauxite, barite, beryllium, coking coal, feldspar, fluor spar, gallium, germanium, hafnium, helium, heavy rare earth elements, light rare earth elements, niobium, phosphate rock, phosphorus, scandium, strontium, tantalum and vanadium.
- There are also some additions to the list of critical raw materials compared with its previous iteration in 2020, including feldspar, helium, nickel (battery grade), and manganese.

Recycling benchmark increased to 25 percent

- The benchmarks of 10% for the extraction of domestic raw materials and 40% for processing in Europe remain unchanged.
- The benchmark for recycling, however, has been increased from 15 percent in the initial proposal to at least 25 percent of the EU’s annual raw material consumption. In addition, the recovery of raw materials contained in waste is to be significantly increased.
- The recycling goal will be based on materials collected from consumer waste rather than the EU’s annual consumption, a change in the calculation method that will be expounded by the European Commission in an implementing act to be adopted in 2027. Meeting the target will not be a legally-binding obligation on EU countries, however.
- Another aim of the act is that no third country should provide more than 65% of any strategic raw material, which also includes **PGMs**, cobalt, copper, magnesium and titanium.

Approval procedure: deadlines slightly extended

- The Commission is to present a report on the estimated consumption of each critical raw material for the next three decades 18 months after the regulation comes into force.
- Depending on the administrative system, member states may designate one or more “points of single contact” at the level they choose (local, regional, or national) and for the various stages of the value chain.
- The deadlines for the faster approval procedures have been extended slightly compared to the Commission’s draft: The total duration of a procedure should not exceed 27 months for mining projects and 15 months for processing and recycling projects. The environmental impact assessment (EIA) is not included in this timeframe; however, the public consultation required for the EIA is.
- The reporting obligations, particularly for medium-sized companies, have been simplified compared to the draft.

Provisions on FPIC still unclear

- Further details of the CRMA to be negotiated include the Parliament’s demand for compliance with Convention 169 of the International Labor Organization (ILO 169), which includes the principle of free, prior, and informed consent (FPIC).
- So far it has been difficult to reach an agreement with the Council, particularly due to Sweden’s extreme position. Sweden has a strong mining industry and a large indigenous community. It is certain that the legislative text will contain provisions on this issue, but it is not yet clear to what extent.

What is next

- The political agreement now needs to be formally approved by both Parliament and Council in order to become law – a process that is usually a rubber-stamping exercise.
- In the Council, the provisional agreement is to be voted on in the Permanent Representatives Committee by the end of November.
- In Parliament, the Industry Committee in Parliament (ITRE) is expected to vote on 7 December, and the plenary before the end of the year.



metallix

Dwayne Bailey

Environmental Health & Safety Manager Dwayne Bailey on how Metallix ensures precious metals are processed with strict attention to environmental, health, and safety regulations.

TALK ABOUT THE IMPORTANCE OF CREATING A SAFE WORKING ENVIRONMENT

At Metallix, we believe there is nothing more important than the safety of our employees. We believe all injuries are preventable and we establish specific safety initiatives and programs to support our efforts.

To create a culture of safety, it takes strong leadership commitment and a motivated workforce. We are very fortunate here at Metallix to have leaders that demonstrate their commitment to safety and promote employee engagement at all levels.

WHAT HEALTH & SAFETY PRACTICES DOES METALLIX IMPLEMENT?

Examples include employee involvement in our Safety Committee, Near Miss Reporting – to uncover hidden hazards, and participation in NC OSHA’s consultative safety and health program.

HOW DOES METALLIX ENSURE A SUSTAINABLE & ENVIRONMENTALLY FRIENDLY OPERATIONS?

As a recycling company, Metallix is committed to conserving natural resources and operating sustainably. Metallix management strives for sustainable solutions and empowers our workforce to do the same.

Examples include:

- Utilizing environmentally conscious materials whenever feasible within the supply chain.
- Foster partnerships that encourage and support sustainable practices. Including annual community clean up events and our adopt a highway initiative – quarterly clean ups along a two mile stretch that runs in front of our facilities.
- We also have goals/objectives to reduce our overall environmental impact. We focus on our incoming waste streams and reducing waste generation from processing.

WHAT WILL METALLIX BE DOING NEXT?

Metallix engages in outreach initiatives that inspire a commitment to environmental stewardship in our employees and community. Metallix will be sponsoring Growing Greenville in 2024.

Sustainability 101: The Advantages of Recycling Over Mining



**WATCH THE
PODCAST**

Sam Sabin is a multifaceted professional and 5th generation son of his grandfather's precious metals company with a dynamic role at Sabin Metal

Safeguarding Gold, Silver, and More: Precious Metal Company Insurance Explained



**WATCH THE
PODCAST**

Mike is not your typical insurance specialist; he's a seasoned expert who's dedicated his career to safeguarding treasures that hold both sentimental and financial value.

An hourglass with blue sand. A rusty, cylindrical catalytic converter is balanced on top of the upper bulb. The sand is flowing from the top bulb to the bottom bulb. The background is white.

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Inorganic Ventures Launches New Virtual ICP Academy, IV Ignite

Christiansburg, VA – October 31, 2023 - In a significant stride towards advancing analytical science education, Inorganic Ventures announced the launch of IV Ignite, an on-demand ICP training platform. This innovative platform officially went live Tuesday, October 31st, 2023.

IV Ignite is a dynamic learning space, designed to foster a culture of continuous growth and knowledge exchange among chemists.

With IV Ignite, users will have unparalleled access to the expertise and support needed to enhance their analytical skills, including video courses, podcasts, downloadable resources, live events with instructors, and community forums to engage with other analysts. Along the way, members can earn Professional Development Units (PDUs) and certificates to boost their resumes.

"We developed IV Ignite to fill a training need in the elemental analysis community. Most analysts receive ICP instrument training on the job and are usually not confident in their skills. IV Ignite is designed to serve as a resource for learners to gain confidence in the lab and build a community where tough analytical challenges are solved," said Technical Director, Mike Booth.

IV Ignite offers three convenient membership tiers, ensuring that the journey toward analytical excellence is tailored to chemists' unique needs. Membership tiers include: 12-month access, 6-month access, and a 60-day free trial period.

To learn more about Ignite, please visit our [website](#) or contact ivignite@inorganicventures.com.

Inorganic Ventures, an industry leader in Certified Reference Materials (CRMs) since 1985, specializes in custom solutions for analytical testing. Our ISO 17034 & ISO 17025 accredited process ensures NIST traceable, stable CRMs. We prioritize superior communication and work closely with customers to efficiently address their challenges. Our team of chemists is dedicated to 'quality beyond the bottle' offering top-notch, education-focused solutions for unique needs. Located in Virginia's New River Valley technology hub, we serve a wide range of analytical instruments and industries. For more, visit <https://www.inorganicventures.com>.

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GOLD NEWS



Gold price weaker on routine corrective pullback

(Kitco News) - Gold prices are moderately down in early U.S. trading Thursday, on a normal downside correction in an uptrend and following recent good gains that saw the yellow metal hit a six-month high Wednesday. A solid rebound in the U.S. dollar index today is a daily outside-market negative for the metals markets. February gold was last down \$7.10 at \$2,060.00. March silver was last up \$0.037 at \$25.48.. [READ MORE](#)



Gold softens fractionally but does not experience major technical chart damage

After an exceedingly strong performance in gold futures, the most active February 2024 contract traded to a higher high than yesterday. However, unlike recent days, pricing during the current session moved well below the daily highs and briefly traded negative on the day. [READ MORE](#)



Gold prices and rate cut expectations rise after Fed's Waller says he sees inflation falling in Q4

Federal Reserve Governor Christopher Waller has given gold prices a boost on Tuesday after a speech in which he listed several indications that inflation was indeed continuing to retreat back toward the central bank's 2% target. [READ MORE](#)



Gold producer Robex increases operating income in third quarter

West Africa-focused gold miner Robex Resources (TSXV: RBX) today reported gold production of 13,375 ounces in Q3 2023, up 20% compared to 11,124 ounces produced in Q3 2022 due to an increase in processed tonnes. [READ MORE](#)



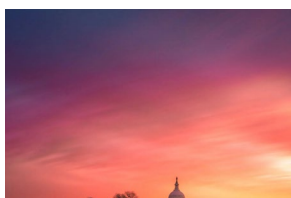
Endeavour boasts whopping 303% surge in indicated gold resources at Tanda-Iguela

Senior global gold producer Endeavour Mining (LSE: EDV) (TSX: EDV) said today it has increased indicated resources at its Tanda-Iguela greenfield property in Côte d'Ivoire by 303% to 4.5 Moz grading 1.97 g/t Au. [READ MORE](#)



Gold, Silver and 2024 Fed Rate Cut Forecasts

Cheap money would of course prove wonderful for bonds, stocks, real estate speculators, no doubt crypto bros and (most likely) precious metals led by gold and silver. [READ MORE](#)



Gold will shine in summer, oil shock could send spot prices above \$2,400/oz - Bank of America

Steel will be the strongest trade in the first quarter of 2024, and base metals will rally during the second half of the year, but summer will be gold's time to shine, according to metals strategists at Bank of America. [READ MORE](#)



Barrick Gold backs consolidated standard for responsible mining

Barrick Gold (TSX: ABX) (NYSE: GOLD) said today it supports the consolidated standard for responsible mining being developed by the Copper Mark, Mining Association of Canada, ICMM and the World Gold Council (the Partners). [READ MORE](#)

Eleven dead at Implats' Rustenburg operations, 75 injured

[\(Kitco News\)](#)

An elevator accident at Impala's Rustenburg operation in South Africa killed 11 workers.

The incident happened Monday evening at the end of workers' shift. The company said that another 75 workers were injured. All mining operations at Rustenburg are suspended today.

On Monday at 16:45 local time the 11 Shaft at Rustenburg was hoisting employees to the surface when the conveyance started descending. The conveyance's rapid descent was stopped by a counterweight becoming trapped by the jack catches, according to the company.

CEO Nico Muller said the accident was the "darkest day" in the company's history.

"This is the darkest day in the history of Implats and our hearts are heavy for the lives lost and individuals affected by this devastating incident," said Muller in a news release.

Impala's Rustenburg operation is 96% owned by Implats and has operations situated on the western limb of the Bushveld Complex near Rustenburg in South Africa. The operation comprises a multi-shaft mining complex and concentrating and smelting plants. The mine accounts for one-third of the company attributable mineral resources. Impala Rustenburg employs 43,872.

The situation at the PGMs is overshadowed by a terrible event at Impala Platinum, one of the largest PGM mines in the world. Yesterday afternoon, a tragic lift accident occurred at a mine in Rustenburg in which 11 employees lost their lives. A further 75 employees were injured in the accident and taken to hospitals in the region for treatment. A lift carrying miners up and down the shaft unexpectedly plummeted 200 metres, according to a report on local television station eNCA. This is a terrible reminder that we are not just dealing with metals, but that these metals must be produced by hard-working people. Our thoughts are with the families who are now having to live through the worst nightmare of their lives.

SILVER NEWS



Highlander Silver to acquire San Luis gold-silver project from SSR Mining, shares rise

Shares of Highlander Silver (CSE: HSLV) are trading higher today after the company announced a definitive agreement with SSR Mining (TSX: SSRM) to acquire the San Luis gold-silver project in Peru. [READ MORE](#)



Silver prices will see steady support from EV, solar in 2024, could spike with industrial rebound - Bank of America

Silver prices will benefit from the growing demand for EVs and solar panels in 2024, and could also get a boost from a potential rebound in industrial demand, according to metals strategists at Bank of America [READ MORE](#)



When silver breaks out, the move will be 'quite significant' - MAG Silver's George Paspalas

"You can't have increasing demand outstripping supply," said Paspalas. "Inventory is falling by 50%, and the price doesn't move. At some point in time silver will break out, and I think it will be quite significant," he said. [READ MORE](#)

Guanajuato Silver begins processing stockpiles at historic El Horcon mine

Guanajuato Silver (TSXV: GSVR) today announced the commencement of development work and the processing of mineralized material from an existing stockpile at its 100% owned El Horcon mine located ~60km NW of Guanajuato, Mexico. [READ MORE](#)



PLATINUM GROUP METALS



Sibanye Cuts US Jobs to Lower Costs After Palladium Price Slumps

Sibanye Stillwater Ltd. plans to cut jobs at its US platinum-group metals operations to lower costs, after palladium prices slumped this year, shortly after announcing similar moves in South Africa. [READ MORE](#)



Tough financing climate puts exploration of Thunder Bay PGM deposit on hold

Thunder Bay mine developer Clean Air Metals said it's waiting out a challenging financing environment while searching for a deep-pocketed strategic partner to advance its platinum group metals (PGM) project. [READ MORE](#)



Pilansberg Platinum closes as price slump claims scalp

Low platinum group metal (PGM) prices have claimed another scalp with Pilansberg Platinum Mines (PPM) telling employees the operation would close from Friday (December 1) until further notice.. [READ MORE](#)



PGM Price Crunch Means Miner Profit Risk

The outlook for Platinum Metals Group looks weaker than consensus, with an Ebitda downgrade of up to 27% in our scenario. While we expect platinum to remain in deficit throughout the rest of this decade, palladium and rhodium will shift to surplus and stay that way for the foreseeable future. [READ MORE](#)



Catalytic Converter Theft Plummets in Los Angeles

At the start of 2023, Avi Margalit, who owns the South Los Angeles Prius repair shop Hybrid Fix, was getting daily calls about catalytic converter replacements. Toyota and Honda models were being frequently stolen because of the devices' high concentrations of precious metals. [READ MORE](#)



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E-WASTE & PRECIOUS METALS RECYCLING RELATED



The tragic cost of e-waste and new efforts to recycle

We think a lot about where products come from when we buy them, less so about where they go when we're finished. When we throw things away, this is "away": mountains of garbage across acres of land, with tens of thousands of people sifting through it, in places like the African nation of Ghana. [READ MORE](#)



What does a sustainable smartphone look like?

Van Abel is the co-founder of the Dutch social enterprise Fairphone, which claims to have built "the world's most sustainable smartphone". But with a complex product containing rare metals and components from all over the world, just how sustainable can a smartphone be?. [READ MORE](#)



Where solar panels go when they die

In 2019, the non-profit Michigan Energy Options had just put up a solar farm in the city of East Lansing — in a dump. "It was a closed dump," said John Kinch, the solar company's executive director. "There was grass and some flowers and weeds growing there." [READ MORE](#)



UK-India Workshop on Circularity of Critical Materials drives country collaboration

In November an important UK-India Industry-Academia scoping workshop on Circularity of Critical Metals, Minerals and Materials was hosted by the The University of Manchester and Henry Royce Institute. [READ MORE](#)

SAVE THE DATES

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

Sheraton Lisboa Hotel & Spa
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More details to follow.

PRECIOUS METAL MINING



Precious metals miners jump as bond yields extend move lower

Against that backdrop, precious metals miners were again at the fore, buoyed by the continued grind higher in gold and silver futures. [READ MORE](#)



Mining Stocks Shine as Gold Nears All-Time High

A renewed upward trend in gold has ushered in predictions of an all-time high. Typically seen as a safe haven in times of uncertainty, gold's recent rise comes as we near the end of this interest rate hiking cycle.

[READ MORE](#)



Aerospace names and precious metals miners pace gains

Aerospace names and Precious Metals Miners performed best on a mixed day for London's main market indices. [READ MORE](#)



Yukon premier offers update on trip to European mining conferences

Speaking to reporters via videoconference from the United Kingdom, Yukon Premier Ranj Pillai outlined his recent efforts to pitch the territory to the European mining sector at a pair of recent conferences.. [READ MORE](#)

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SEMICONDUCTOR, EV, FUEL CELL RELATED



New Discovery Could Make Organic Solar Cells Significantly More Efficient

A research team at the Technical University of Munich has made significant progress in organic solar cell technology by incorporating organic dyes. These dyes facilitate the movement of excitons, critical for energy conversion, thus enhancing the efficiency of the solar cells. [READ MORE](#)



GM scales back electric vehicle and self-driving car plans as new labour deals will cost it \$10B

General Motors said it is pumping the brakes a little on its plans for electric vehicles and self-driving cars as new labour deals signed with unions in the U.S. and Canada will cost it almost \$9.3 billion US.. [READ MORE](#)



On average, electric vehicles are less reliable than other cars and trucks, Consumer Reports finds

Electric vehicles have proved far less reliable, on average, than gasoline-powered cars, according to the latest survey by Consumer Reports, which found that EVs from the 2021- 2023 model years encountered nearly 80 per cent more problems than did vehicles propelled by internal combustion engines. [READ MORE](#)



Detroit touts first wireless-charging public road for electric vehicles in US

The world's first use of 100% H2 in an industrial gas turbine has taken place in western France, according to Siemens Energy, paving the way for large-scale H2-based energy storage projects. [READ MORE](#)



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We are one of the world's largest recyclers of scrap automobile catalyst. Headquartered in Pasadena, Texas, we have branch offices in Mexico, Italy, UK, Canada and Brazil

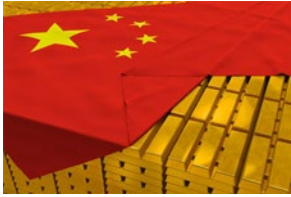


OTHER GOLD NEWS



Gold rally in jeopardy as high local prices impact demand in China and India

Spot gold's rally to a six-month high may yet be undermined by softening demand in China and India, according to Clyde Russell, Asia Commodities and Energy Columnist at Reuters. [READ MORE](#)



China's gold imports via Hong Kong fall for second consecutive month in October

China's net gold imports via Hong Kong fell for a second consecutive month in October as a patchy economic recovery impacted demand, according to a report from Reuters published Monday. [READ MORE](#)



Bitcoin, gold, and silver should jump as the Fed pivots, but China's yuan faces structural problems, Mike Novogratz says

When the central bank turns from its hawkish stance to a dovish one, it will release "animal spirits" on financial markets, he said, noting that the US dollar has already started falling on bets for a Fed pivot.. [READ MORE](#)



Egypt concludes gold expo amid growing demand for gold

Egypt concluded on Tuesday the third edition of Nebu Expo for Gold & Jewelry amid soaring prices of gold and growing demand, while the country is facing a U.S. dollar shortage, currency devaluation and high inflation.. [READ MORE](#)



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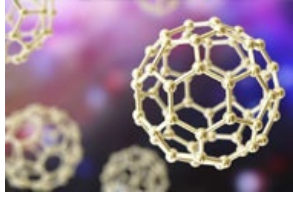
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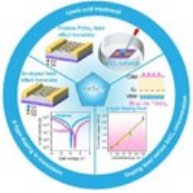


OTHER PRECIOUS METAL NEWS



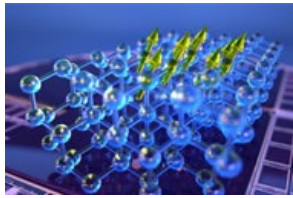
Nanoengineered, Pd-doped Co@C nanoparticles as an effective electrocatalyst for OER in alkaline seawater electrolysis

Water electrolysis is considered one of the major sources of green hydrogen as the fuel of the future. However, due to limited freshwater resources, more interest has been geared toward seawater electrolysis for hydrogen production. [READ MORE](#)



New Palladium Diselenide Preparation Method for Optoelectronics

Optoelectronics are utilized in a wide range of devices across numerous sectors, typically to detect or emit light. Historically, small transistors—small semiconductors constructed of graphene and other two-dimensional materials that regulate the flow of electrons and photons—have been the backbone of these devices. [READ MORE](#)



Toward steering the motion of surface rolling molecular machines by straining graphene substrate

The surface rolling molecular machines are proposed to perform tasks and carrying molecular payloads on the substrates. As a result, controlling the surface motion of these molecular machines is of interest for the design of nano-transportation systems. [READ MORE](#)



Zimbabwe orders lithium miners to submit refinery plans by March 2024

Zimbabwe has given lithium miners up to March 2024 to submit plans for the local production of battery-grade lithium in a bid to benefit from growing demand for the clean energy mineral, Finance Minister Mthuli Ncube said on Thursday. [READ MORE](#)



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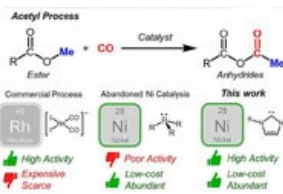


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PRECIOUS METALS RELATED SCIENCE & CHEMISTRY NEWS



Research unveils nickel-based catalysts with remarkable economic feasibility

In a development set to transform the chemical industry on a global scale, Professor Chang Ho Yoo in the Department of Chemistry at UNIST has successfully developed a highly efficient and stable carbonylation catalytic reaction using nickel catalysts. This achievement, published in *Science*, offers a promising alternative to the widely used rhodium catalysts in the acetyl process. [READ MORE](#)

Scientists Unearth Gold's Remarkable Origin Story

A new theory provides possible answers to lingering questions about the way gold, platinum, and other precious metals found their way to shallow pockets within Earth's mantle rather than deep in the planet's core. More broadly, the new theory offers insights into planet formation throughout the universe. [READ MORE](#)

New designs for solid-state electrolytes may soon revolutionize the battery industry

A pressing concern with current commercial batteries is their reliance on liquid electrolytes, which leads to flammability and explosion risks. Therefore, the development of non-combustible solid electrolytes is of paramount importance for advancing solid-state battery technology. [READ MORE](#)

Green synthesis of Ag nanoparticle supported on graphene oxide for efficient nitrite sensing in a water sample

Water is essential for conserving biodiversity, ecology, and human health, but because of population growth and declining clean water supplies, wastewater must be treated to meet demand. [READ MORE](#)

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February 20-22, 2024

Hyatt Grand Cypress Resort, Orlando, Florida

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IPMI EU Chapter: The Spring Reception

May 14-15, 2024

London, UK



IPMI 48th Annual Conference

June 8-11, 2024

Hyatt Grand Cypress Resort, Orlando, Florida



2024 European Chapter Annual Seminar

November 17 - 19, 2024

Sheraton Lisboa Hotel & Spa, Lisbon, Portugal

Upcoming Events



IPMI Winter Meetings

February 18-20, 2025

Hyatt Grand Cypress Resort, Orlando, Florida



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