

HYATT REGENCY

# 2024 ANNUAL CONFERENCE

**JUNE 8-11, 2024 • ORLANDO, FLORIDA**

***PLUS***

- Student Award Winners
- IPMI and OneMine Collaboration
- Latest Industry News



# IPMI 48TH ANNUAL CONFERENCE

JUNE 8 - 11, 2024



## TECHNICAL SESSIONS:

- World of PM Finance - PGMs, Gold and Silver
- Sustainability ESG
- Precious Metals in Clean Energy
- Cyber Security Workshop
- Responsible Sourcing
- H2 Economy New Products and Refining
- SAC Workshop
- New Horizons



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TO REGISTER

HYATT REGENCY GRAND CYPRESS RESORT - ORLANDO, FLORIDA



TECHNICAL  
SESSIONS



BUSINESS  
NETWORKING



GOLF  
TOURNAMENT



STUDENT  
PRESENTATIONS



IPMI  
AWARDS



RECEPTIONS &  
ENTERTAINMENT

**One Month To Go - Register Today and Book Your Room While They Last**  
**HOW TO REGISTER**

## **STEP 1** REGISTER FOR THE CONFERENCE

Choose the conference ticket that best matches your interests and itinerary.

**REGISTER FOR THE CONFERENCE**

## **STEP 2** BOOK A ROOM AT THE HOTEL

Hotel rooms at the Hyatt will go fast. We strongly encourage you to book your room here with No Resort Fee.

**BOOK YOUR HOTEL ROOM**

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If your company is sending more than 5 attendees to the conference you are eligible for a 15% discount.

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Note to secure these discounts you have to book through Sandra Arrants. You can contact her at [mail@ipmi.org](mailto:mail@ipmi.org)



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Contact Sandra at [mail@ipmi.org](mailto:mail@ipmi.org) for more information.

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## AGENDA: DAY 1

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**Metallix**

**Conference  
Technical Program**  
(Each Day of  
the Conference)  
Sponsored by  
**Reldan**

### Saturday, June 8th

6:30 AM

#### Lobby

Shuttle to Disney's Magnolia Golf Course.

7:00 AM

#### Golf Course

Breakfast / Warmups

**Note: Golf Registration Ends May 27, 2024  
Only 10 Spots Left, As of May 7**

8:00 AM

#### Shotgun Start

Note: Lunch for Golfers at  
Shades of Green at conclusion of tournament

2:30 PM

#### Transportation

Bus returns to the Hyatt

#### Longest Drive

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#### Closest to the Pin

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#### Trophies

Sponsored by **Axiom Scientific**

8:00 AM - 5:00 PM: See Daily Schedule Below:

#### Registration Room Opens

Location: Palm ABC

Sponsored by **Heraeus**

9:00 AM - 4:00 PM

#### The Meeting Place [Every Day]

- Complimentary IPMI Delegate's  
Lounge to Network and hold Meetings

Location: Grand Cypress - ABC

Sponsored by **Sims Precious Metals**

3:30-4:30 PM

#### Student Meet and Greet — by invitation only

Location: La Coquina & Alcove

4:30-6:00 PM

#### The IPMI Experience for First-Time Attendees — by invitation only

Location: Grand View Terrace

Sponsored by **Sabin Metal Corporation**

6:00-8:00 PM

#### Welcome Reception

Location: Grand Cypress - DEF

Sponsored by **Tanaka and Metalor**

8:00-10:00 PM

#### Dueling Piano Bar

Location: Pre-Function/Portico

Sponsored by **Dillon Gage**

Open Bar

Sponsored by **RS Bruce**

Dessert

Sponsored by **Techemet**



## PRELIMINARY AGENDA: DAY 2

### Sunday, June 9th

7:30 AM

#### Continental Breakfast

Location: Pre-Function/Portico

Sponsored by **Hensel Recycling**

8:00 AM-4:00 PM [Every Day]

#### Exhibit Booths

Location: Portico East/West

9:30 AM-12:00 PM

#### Spouse Event

Brunch in Lakehouse Kitchen

Followed by Jewelry Making at Orchid B

8:30-10:00 AM

#### Session A

##### World of PM Finance - PGMs

Location: Grand Cypress - GHI

Moderator:

Dr. Jonathan Butler, Mitsubsihi International Corporation

Shifting Sands: The Dynamic Demand for Platinum Group Metals in a Rapidly Changing Landscape

Wilma Swarts, Metals Focus

PGM Demand From a Supplier's Perspective

Yana Stunis, Anglo American Platinum

PGM Recycling: Understanding the Downturn and Future of the Industry

Dr. Sandeep Kaler, SFA Oxford  
*Panel Discussion*

10:00-10:15 AM

#### Morning Break

Location: Pre-Function/Portico

Sponsored by **CIBC**

10:15-11:30 AM

#### Session B

##### World of PM Finance - Gold and Silver

Location: Grand Cypress - GHI

*Moderator:*

Philip Newman, Metals Focus

*Presenters:*

Does the Gold Rally Have Legs ?

Upside & Downside Risks

Philip Newman, Metals Focus

Silver in Deficit: Don't be Short

Phillips Baker, Hecla Mining Company

Joe Cavatoni, World Gold Council

Keith Weiner, Monetary Metals

11:30-1:30 PM

#### Member's Meeting and IPMI Luncheon

Location: Grand Cypress - DEF

Sponsored by **BASF**

1:45-3:00 PM

#### Session C

##### Cyber Security Workshop

Location: Grand Cypress - GHI

Scott Schwartz, FideITrade

John Dourekas, Kitco

3:00-4:30 PM

#### Women of IPMI & WiPGMs

Location: Pre-Function/Portico

Sponsored by **FideITrade and Delaware Depository**

Collaboration of IPMI and WiPGMs

Wilma Swartz, Metals Focus.  
WiPGMs Chair

2024 Carol Tyler Award Winner

Marion Cameron, Sipi Metals

Mentor Program

Ruth Leland, Johnson Matthey

*Panel Discussion*

*Moderator:*

Ruth Leland, Johnson Matthey  
Becky Berube, United Catalyst Corporation

Julie Daugherty, Multimetco

Maria Piastre, Metallix

Roundtable Experience

Ruth Leland, Johnson Matthey

Path Forward

Lynn Davis, FideItrade. Women of IPMI Committee Chair

3:45-4:30 PM

#### Women of IPMI & WiPGMs: Social Reception

Location: Pre-Function/Portico

Sponsored by **FideITrade and Delaware Depository**

5:00-6:00 PM

#### Premier Member Social

— *by invitation only*

Location: Grand View Terrace

#### Sunday Night Fever

6:30-8:00 PM

#### IPMI Reception & Open Bar

Location: Grand Cypress - GHI

*Rhodium Sponsor - Available*  
*Palladium Sponsor - Available*  
*Open Bar Sponsor - Available*

*Iridium Sponsor:*

**McCol Metals**

Starts at 8:30 PM

#### Disco and 70s-80s Dance Show

Location: Grand Cypress - GHI

*Platinum Sponsor:*

**pH7 Technologies**

*Gold Sponsors:*

**Rand Refinery / World Gold Council / Colt Refining / Hugh Wood**

*Silver Sponsor:*

**United PMR**

*Open Bar*

*Sponsored by*  
**Mitsubishi International Corporation**

*Dessert*

*Sponsored by* **Loomis**

# PRELIMINARY AGENDA: DAY 3

## Monday, June 10th

7:30 AM

### Continental Breakfast

Location: Pre-Function/Portico

Sponsored by **PMR**

8:30-10:00 AM

### Session D

#### Precious Metals in Clean Energy

Location: Grand Cypress - GHI

#### Moderator:

Matt Watson, Precious Metals Commodity Management LLC

PGM's in the Hydrogen Economy, e-Fuels / SAF Market / e-Methanol  
Marge Ryan, Advocacy Manager - Platinum Group Metals at Johnson Matthey

Thriftling and Recycling of PGMs - Core Activities for the Success of PEM Hydrogen Technologies  
Philipp Walter, Executive VP Business Line Hydrogen Systems at Heraeus

#### Panel Discussion

PGM's in the H2 Economy

#### Moderator:

Matt Watson, Precious Metals Commodity Management LLC

Marge Ryan, Johnson Matthey  
Philipp Walter, Heraeus  
Matt Davis, MasterMelt  
Dr. Sandeep Kaler, SFA Oxford  
Gancheng Sun, Amogy

10:00-10:15 AM

### Morning Break

Location: Pre-Function/Portico

Sponsored by **PMR**

10:15-11:15 AM

### Session E

#### Sustainability ESG

Location: Grand Cypress - GHI

#### Moderators:

Sam Sabin, Sabin Metals

and James Gavilan, Gavilan Commodities

#### Presenters:

Anglo American's License to Operate - Going Beyond the ESG Acronym

Yana Stunis, Anglo American

The Crucial Synergy between the E, S, and G in Sustainability Strategies and in Benefit Corporations (B Corp)  
Alice Vanni, Italpreziosi Spa

Sustainability Auditing and the Net Zero Journey: the Bureau Veritas Perspective

Aline Wolf, Bureau Veritas

"Financing a Greener Future: Sustainable Precious Metals in Focus"; A Debt Provider's Role in Promoting Responsible Mining and Refining  
Miranda Werstiuk, Monetary Metals

11:15-12:30 PM

### Session F

#### Responsible Sourcing

Location: Grand Cypress - GHI

#### Moderator:

Randy Weirnerman, Mitsubishi International Corporation

Recycled Gold  
Neil Harby, LBMA

LPPM's Responsible Sourcing Initiatives  
John Cullen, Johnson Matthey

A Refiner's Perspective on Responsible Sourcing  
Raysa Garcia, United Precious Metal Refining, Inc.  
Dora Mayorga, Atomic Gold

#### Panel Discussion

12:30-2:00 PM

### IPMI Delegate Luncheon

Location: Grand Cypress - DEF

Sponsored by **Auramet**

2:00-3:00 PM

### Session G

#### PGM Refining Technologies and Autocat Recycling Trends

Location: Grand Cypress - GHI

#### Moderator:

Craig Ostroff, BASF

From Concept to Commercialization: Unveiling pH7's Wet Chemistry Processing Plant  
Mohammad Doostmohammadi, pH7 Technologies

PGM Loading Trends in North America Autocat  
Ben Davis, Davis Recycling  
Adam Lazewski, BASF

#### Panel Discussion

Mohammad Doostmohammadi, pH7 Technologies  
Ben Davis, Davis Recycling  
Adam Lazewski, BASF  
Ed Schwenk, Noble6

3:00-5:00 PM

### Afternoon Party

Location: Oak Terrace

Sponsored by **Gannon and Scott**

5:00-6:00 PM

### Happy Hour

Location: Grand View Terrace

Sponsored by **Bureau Veritas**

6:00-8:00 PM

### Sabin Reception

Location: Windsong Lawn

Sponsored by **Sabin Metal Corporation**

8:00-10:00 PM

### Mastermelt's Margaritaville

Location: Upper Pool Deck

Sponsored by **Mastermelt**

**The Landsharks Tribute to the Music of Jimmy Buffett, The Beach Boys and more.**



## PRELIMINARY AGENDA: DAY 4

### Tuesday, June 11th

8:00 AM  
**Continental Breakfast**  
*Location: Pre-Function/Portico*  
*Sponsored by **Brinks***

9:00-10:30 AM  
**Session H**  
**New Horizons & Precious Metals Technology**  
*Location: Grand Cypress - GHI*

*Moderator:*  
 Federico Padrono Martini, IKOI S.p.A

Green Refining of Iridium Using Molecular Recognition Technology™ (MRT™)  
 Steven R. Izatt, IBC Advanced Technologies, Inc.

Gold and Silver Bars: Effectiveness of the Process, Optimization of Time and Space  
 Federico Padrono Martini, IKOI S.p.A

New Tunnel Furnace T-Barmaster Spaceless with the New High Efficiency Converter  
 Luca Fiorini, Tera Automation  
 Filippo Piomboni, Tera Automation

TBD  
 Patrick O'Connor, Inductotherm

10:30-10:45 AM  
**Morning Break**  
*Location: Pre-Function/Portico*  
*Sponsored by **Techemet***

10:45-12:00 PM  
**Session I**  
**SAC Workshop**  
*Location: Grand Cypress - GHI*

Introduction to Analytical Glassware and Procedures  
 Dr. Stacey Santolli, BASF-ECMS

Round Robin Results  
 Algis Naujokas, Sabin Metals

SAC Path Forward - Group Discussion  
 - Future Round Robin Exercises  
 - SAC October Symposium Plan

12:30 PM  
**Student Lunch**  
*— by invitation only*  
*Location: Portico East*  
*Sponsored by the **European Chapter of the IPMI***

1:30-2:45 PM  
**Student Presentations Part 1**  
*Location: Poinciana A-D*  
*Open to All*

2:45-3:00 PM  
**Afternoon Break**  
*Location: Poinciana A-D*

3:00-4:15 PM  
**Student Presentations Part 2**  
*Location: Poinciana A-D*  
*Open to All*

6:00-7:00 PM  
**President's Reception**  
*Location: Pre-Function/Portico*  
*Sponsored by **Mitsubishi International Corporation***

7:00-9:00 PM  
**Awards Banquet**  
*Location: Grand Cypress - GHI*

*Awards Banquet Wine*  
*Sponsored by **QML***

*Awards Banquet Entertainment*  
*\* Sponsorship is Available \**

9:00-10:00 PM  
**Closing Dessert Reception**  
*Location: Pre-Function/Portico*  
*Sponsored by **Umicore***

\*\*\* Registration will be open at the following times during the Conference:

8AM-5PM on Saturday  
 8AM-3PM on Sunday  
 8AM-1PM on Monday  
 8AM-noon on Tuesday



# The IPMI ®

## Would Like to Thank its Website Sponsors







## Arrests Made in Pearson Gold Heist

On the one year anniversary of Canada's largest gold heist, Peel Regional Police and members of the U.S. ATF announced the arrest of 9 people in relation to the incident. Police allege that the suspect came into possession of the stolen gold and bank notes after presenting Air Canada personnel with a fraudulent airway bill. Police believe the gold was melted down and sold and the proceeds used to fund the purchase of illegal guns for a firearms trafficking operation. Suspects include two employees (one former) of Air Canada Cargo.

[Read more here.](#)



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# GREEN RUSH

with Matt Watson



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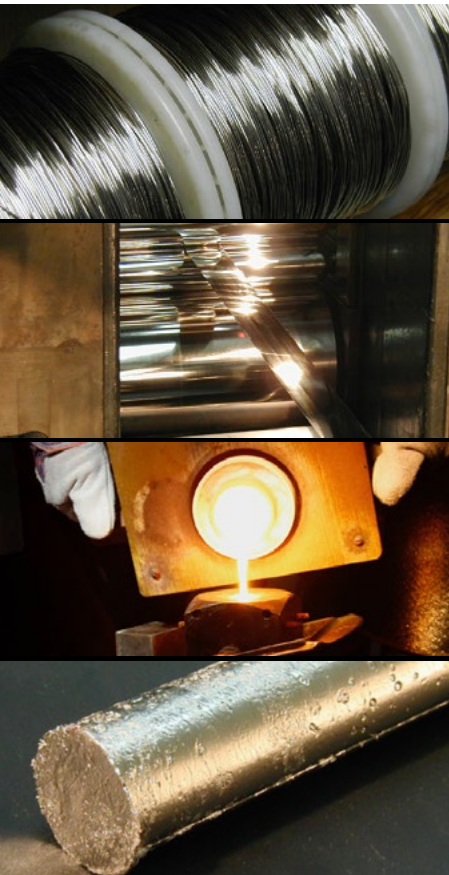
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## THESE 2 METALS ARE 'CRUCIAL' TO THE HYDROGEN ECONOMY



The industrial demand for iridium and ruthenium is outstripping mined supply, pushing the need for recycling, says Green Rush host Matt Watson. On April 24, Watson recorded an episode of Green Rush with Steven Hazelbaker, COO of Furuya Metals America, a PGM manufacturer and recycler. The topic was the platinum group metals - iridium and ruthenium - and the hydrogen economy.

Watson kicked off the discussion with a chart showing that iridium and ruthenium represent a relatively small part of the PGM basket, around 11%. Iridium is worth USD\$1.7 billion, and ruthenium is just over \$1 billion, out of a total precious metals value of \$395 billion. However, the two so-called "minor" PGM metals are essential to the hydrogen economy.



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### IPMI Ames Gold Smith Colonial Metals Premier Student Award

#### Brandon Campbell of Harvard University

**Research Title:**

Development of Divalent Silver Ligand-to-Metal Charge Transfer Photocatalysts

Brandon M. Campbell was born in Bloomington, Illinois. He received his A.B. in Chemistry with Highest Distinction and a minor in General Economics from Washington University in St. Louis in 2021. As an undergraduate research assistant in the lab of Professor Bryce Sadtler, he studied the electrodeposition of metal chalcogenide and oxide semiconductors and was named a 2020 Barry Goldwater Scholar. Currently, Brandon is an NSF Graduate Research Fellow and Herchel Smith Graduate Research Fellow in the lab of Professor Daniel G. Nocera at Harvard University where he works on developing novel silver-based photocatalysts for highly oxidizing organic transformations.



### IPMI Europe Chapter Award

#### Christian Ehinger, ETH Zurich

**Research Title:**

Late Transition-Metal Precursors for the Synthesis of Well-Defined Heterogeneous Catalysts

Christian is a PhD candidate in the group of Prof. Christophe Copéret at ETH Zürich, Switzerland, specializing in the synthesis and study of well-defined heterogeneous catalysts used for biomass valorization and CO<sub>2</sub> hydrogenation. He obtained his Master degree from ETH Zürich in 2020, and completed his master thesis on Ir-catalyzed C–H borylation in the group of Prof. John Hartwig at UC Berkeley. Beyond his academic pursuits, Christian enjoys swimming in the river of his hometown and has a knack for consistently finding the perfect avocado at the supermarket.



### IPMI George Benvegno Sr Memorial Award

#### Katherine Xie, Columbia University

**Research Title:**

Development and Application of Os(II) and Ir(III) Photoredox Systems in Organic Synthesis

Katherine Xie is a fourth-year Ph.D. candidate in the group of Tomislav Rovis at Columbia University. Her doctoral research focuses on the development of cross-coupling methods in photoredox catalysis using low-energy light, leading to the synthesis of new C(sp<sup>2</sup>)-C(sp<sup>3</sup>) coupled druglike cores. A novel library of heteroleptic Ir(III) photocatalysts activatable by orange light has been reported by Katherine and collaborators to be competent in driving challenging nickel-assisted metallaphotoredox reactions using both reductively and oxidatively activated alkyl radical precursors. The broad applicability of these catalysts is reflected in an expansive substrate scope, including improved large-scale reactivity and functional group tolerance relative to existing high-energy photoredox methods, and is a first-in-class demonstration of C(sp<sup>2</sup>)-C(sp<sup>3</sup>) cross-coupling with low-energy light.



### IPMI Sabin Metal Ron Bleggi Student Award

#### Arturo Miyasaki, Colorado School of Mines

**Research Title:**

Application of Bromine based Hydrometallurgy as Alternative to Cyanide to Recycled Materials

Arturo Hirata is a Japanese born in Mexico who moved to Arizona to start his studies in Materials Science and Engineering at Arizona State University in 2016 where he worked on the influence of probe tip friction effects on C-plane sapphire during three and four-point bend tests. After graduating in 2020, he moved to Colorado to pursue his MS in semiconductors at the Colorado School of Mines, but, after taking classes with Dr. Taylor, Dr. Anderson, and Erik Spiller, switched to the Mining Engineering department and focused on extractive metallurgy under the mentorship of Dr. Corby G. Anderson



## IPMI Gero Family Trust Bright Futures Student Award

**Karthik Iyer of University of California, Santa Barbara**

**Research Title:**

Application of New Green chemistry Tools for the Synthesis of Active Pharmaceutical Ingredients (APIs)

Born and raised in Mumbai, Karthik's journey in chemistry began at the Institute of Chemical Technology (ICT) Mumbai, where he earned his Bachelor's degree in Pharmaceutical Chemistry and Technology. He is committed to developing eco-friendly methodologies that promote sustainability in organic synthesis, aiming to revolutionize pharmaceutical manufacturing. Karthik has had the privilege to collaborate with the Bill and Melinda Gates Foundation on groundbreaking projects focusing on the development of antimalarial and antiretroviral drugs, including the notable drug Nirmatrelvir. His innovative research has earned him several accolades, including awards for excellence in green chemistry during his PhD program and the prestigious IPMI student award.



## IPMI Johnson Matthey Student Award

**Nikita Cheksin, Scripps Research Institute**

**Research Title:**

Development of Pd-catalyzed selective C-H functionalization Methods of Native Amides through ILgand Design

Nik Chekshin completed his undergraduate and Masters studies in synthetic and computational chemistry at the University of Oxford, followed by doctoral studies in catalysis at Scripps Research. He is an Executive Board member at the Scripps Society of Fellows, Western States Petroleum Association, and Nucleate, he helps build new connections between innovators in academia and industry and promotes early-stage founders in the both life sciences and energy industry. As an active proponent of sustainability-focused research and the founder of ANSELM, he leads the team of scientists developing innovative digital technologies for profitable decarbonization of heat-intensive industries via energy efficiency optimization.



## IPMI Metalor Student Award

**Rachel Chan, Northwestern**

**Research Title:**

Defect Formation in Colloidal Crystals with DNA

Rachel completed her undergraduate degree in Chemistry at the University of California, Berkeley in 2021. Currently, she is a PhD candidate in the Chemistry Department at Northwestern University in Prof. Chad Mirkin's group studying DNA-mediated crystallization of nanoparticles. Her research explores ways to control and leverage defect formation in crystals characterized through electron microscopy and synchrotron X-ray diffraction. Outside of graduate school, she enjoys tutoring middle school students, running, and traveling. Rachel hopes to someday visit all the US National Parks.



## IPMI Bureau Veritas Student Award

**Zhongyu Liu, Carnegie Mellon University**

**Research Title:**

Atomically Precise Gold Nanoclusters for Near-infrared Bio-imaging

Zhongyu (Alex) Liu received his bachelor's degree in materials science from the University of Science and Technology of China and joined Prof. Rongchao Jin's group for his Ph.D. in chemistry. His research focuses on the near-infrared photoluminescence of atomically precise gold nanoclusters and their applications in bioimaging and energy conversion. Fun fact: He once drank ten shots of vodka and woke up the next morning feeling surprisingly fine.



## IPMI Advisor Award

**Prof. Daniel Nocera, Harvard University**



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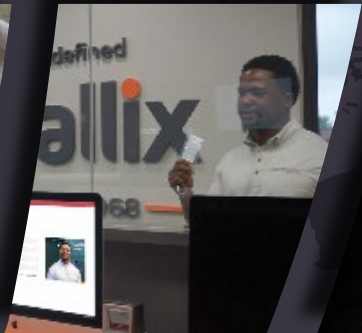
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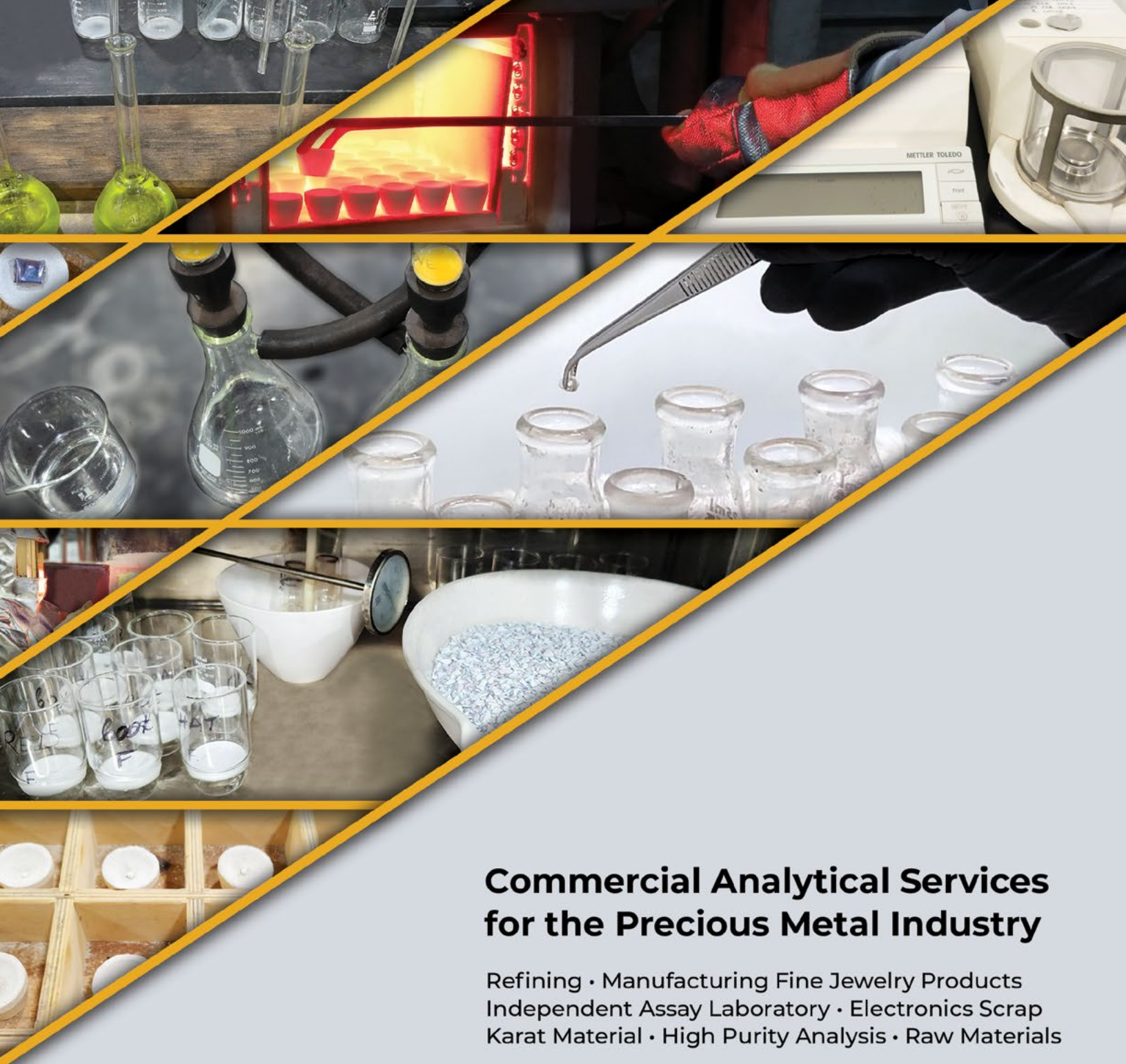


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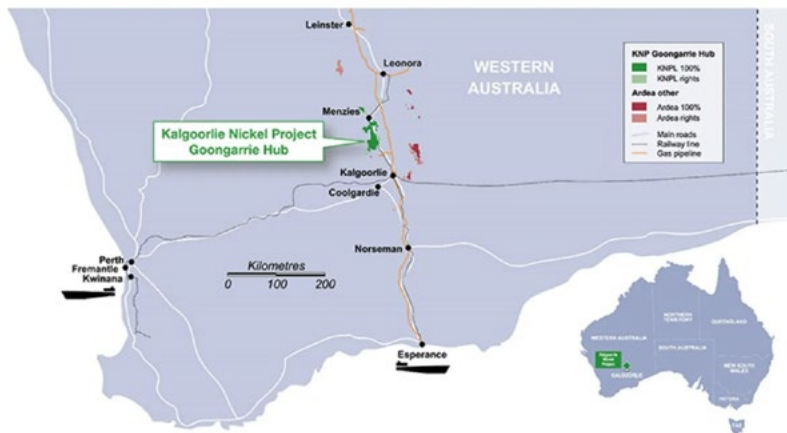
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## Sumitomo Metal Mining and Mitsubishi Corporation to Participate in Kalgoorlie Nickel Project - Goongarrie Hub

**TOKYO, Apr 30, 2024 - (JCN Newswire)** - Sumitomo Metal Mining Co., Ltd. (TSE: 5713, SMM) and Mitsubishi Corporation (TSE: 8058, MC) have entered into a binding agreement with Ardea Resources Limited (ASX: ARL, Ardea) to participate in the development of the Kalgoorlie Nickel Project (KNP) - Goongarrie Hub.



SMM and MC will establish an incorporated joint venture to fund the KNP – Goongarrie Hub Definitive Feasibility Study (DFS) up to the agreed budget of 98.5 million AUD. The SMM-MC joint venture will acquire an ultimate 50%(1) interest in Kalgoorlie Nickel Pty Ltd (KNPL), the owner of the project and currently 100% held by Ardea.

Located in Western Australia, KNP - Goongarrie Hub is one of the world's largest nickel deposits, expected to produce approximately 30,000 tonnes of nickel and 2,000 tonnes of cobalt per annum over a 40-plus-year mine life. The SMM-

MC joint venture will leverage SMM's expertise in nickel and cobalt extraction from low-grade nickel oxide ore using the High Pressure Acid Leach (HPAL) process, combined with MC's extensive experience and track record in the Australian mining sector to assess the feasibility of KNP – Goongarrie Hub. Through collaborative efforts between the joint venture and Ardea, the DFS is expected to commence during the first half of 2024 and be completed by the second half of 2025.

SMM and MC will be supported with a grant provided by Japan's Ministry of Economy, Trade and Industry that is intended for securing critical mineral supply stability in Japan.

SMM possesses fully integrated nickel supply chains from ore to metals, chemicals and battery materials. SMM will continue to be proactive on securing source of the critical mineral towards one of its Long-term Vision's targets of 150,000 tonnes nickel annual production capacity.

MC, in its "Midterm Corporate Strategy 2024 – Creating MC Shared Value" released in May 2022, outlined its growth strategy of accelerating energy transformation, including investment in nickel resources. Beyond this Strategic Investment, MC remains committed to further securing a stable and sustainable supply of battery minerals.

(1) SMM and MC to jointly acquire a 17.5% interest in KNPL upon funding 50% of the DFS budget, an additional 17.5% interest upon completion of the DFS, and an additional 15.0% interest upon approval of the final investment decision.

For more information, visit <https://www.mitsubishicorp.com/jp/en/pr/archive/2024/html/0000053701.html>.

Inquiry Recipient:

Mitsubishi Corporation

Telephone:+81-3-3210-2171



The IPMI Foundation is pleased to announce that IPMI has joined OneMine, the world's foremost source for technical information on the mining, metallurgy, refining, safety, environment, markets and economics of metals and minerals. <https://onemine.org/>

It is a collaborative effort amongst 15 global societies currently providing 2,093,862 pages in 145,475 PDF documents and growing. As a start, IPMI will contribute its peer reviewed Journal to OneMine. OneMine will leverage IPMI into the global community of its peers and provide a tangible benefit for each IPMI member.

## GOLD NEWS



### Gold prices doubled over five years: World Gold Council

John Reade, Chief Market Strategist for Europe and Asia at the World Gold Council, has announced that gold prices have seen a remarkable surge, doubling over the past five years since 2019. He emphasized that this trend is independent of the dollar's value.

[READ MORE](#)

### Gold Demand Trends Q1 2024 | World Gold Council

Q1 gold demand (excluding OTC) slipped 5% y/y to 1,102t, due to continued ETF outflows. Inclusive of sizable OTC buying by investors, total gold demand increased 3% y/y to 1,238t – the strongest Q1 since 2016.

[READ MORE](#)

### Rising government bond yields drag on precious metals miners

Precious metals miners' shares paced losses on Tuesday, as investors girded themselves for the result of the U.S. central bank's 2-day policy meeting. Policy-makers at the Fed were expected to announce their decision to keep rates on hold the next day.

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### China's Private Gold Demand Nears 1% of GDP at Record Prices

China's property market continuing to fall, its stock market hitting 5-year lows, and cash interest rates stuck at historic lows, Chinese households and investors have poured money into gold, helping drive the global price up to new record highs at \$2400/Toz of gold bullion in London and above ¥500/gram in Shanghai.

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## SILVER NEWS



### Silver's solar demand tops forecast, surging 64% last year

Silver demand from the Solar PV +64% last year, rising more sharply than previously estimated, according to the latest industry data, with the dynamic expected to help underpin prices for the precious metal.

[READ MORE](#)

### Opportunity? Silver to face historical deficit as industrial demand grows

The 2024 World Silver Survey, released by The Silver Institute and conducted by the UK-based research firm Metals Focus, underscores a severe forecast: the silver market is entering its fifth consecutive year of supply deficits, intensified by robust industrial demand.

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### Solar module prices hovering at all-time lows

A growing number of PV module manufacturers are threatening to shut down their production facilities in Europe due to the ongoing low-price trend. Some want to give up, while others want to move to the United States, where there are supposedly better market and funding conditions.

[READ MORE](#)

### Herbert Hunt, Billionaire Who Tried to Corner the Silver Market, Dies at 95

In many ways, the three brothers couldn't have been more different. Bunker Hunt was a paunchy billionaire who flew economy and owned hundreds of thoroughbred horses.

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## PLATINUM GROUP METALS



### UBS sees palladium prices dropping to \$900 by end of 2024

UBS has forecasted a modest surplus in the Pd market, projecting an excess of 50,000 Toz, or 0.5% of demand, for this year. This surplus is expected to contribute to a downward trend in Pd prices, with a target of \$900/Toz by the end of 2024. The firm maintains a negative outlook on the metal's future pricing.

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### G.M. Reports Big Jump in Profit on Gasoline Car Sales - The New York Times

The company saw slow growth in EVs, but robust sales of ICE vehicles, especially pickup trucks, helped raise its profit to \$3 billion in the first quarter, a 24% jump from a year earlier. G.M. said it now expected to make \$10.1 billion to \$11.5 billion in profit this year, up from a previous forecast of \$9.8 billion to \$11.2 billion.

[READ MORE](#)



### Platinum and Palladium Price Parity Signals Big Shifts | Presented by CME Group

The nearing price parity between platinum and palladium, a phenomenon last observed in 2018, signals intriguing shifts within the precious metals market. Market perceptions and industrial demands are quickly evolving in response to the pivot toward electric vehicles [VIDEO]

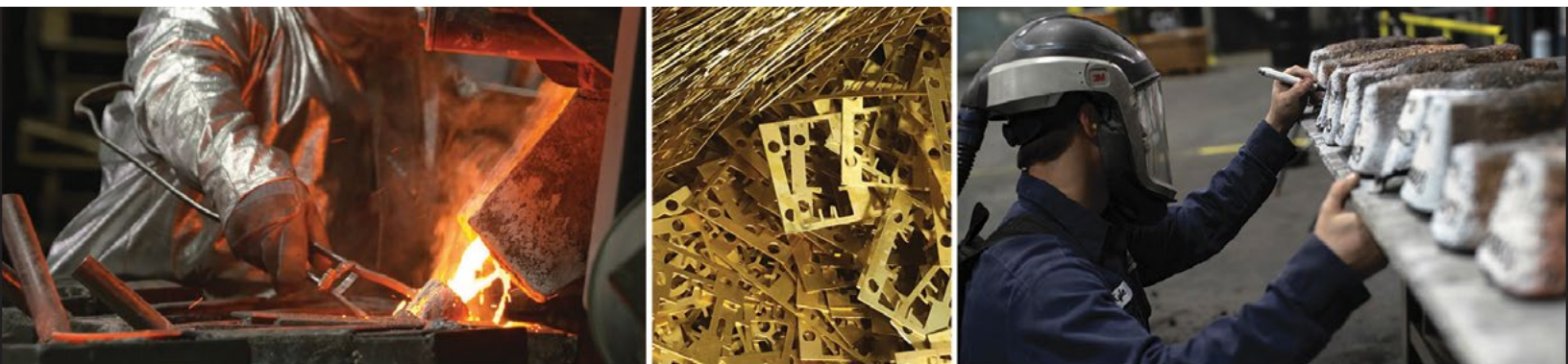
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### Shanghai Platinum Week: Hydrogen's going to feature big, says World Platinum Investment Council

The growth in demand for platinum applications in China is extremely high, making detailed access to the China market hugely advantageous.

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## Leading the Way in Precious Metal Reclamation



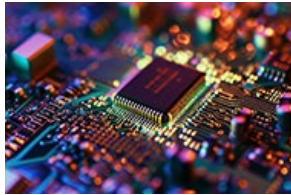
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## E-WASTE & PRECIOUS METALS RECYCLING RELATED



### The Renewable Revolution Hinges on Recycled Metals

- E-waste contains a large amount of critical metals needed for clean energy technologies.
- Recycling metals from e-waste is a more environmentally friendly alternative to mining new metals.
- Supportive policies and designs that facilitate recycling are key to increasing the recycling of e-waste metals.

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### Billions of dollars of materials being squandered in e-waste mountain, says U.N.

- E-waste generates faster than recycling capacity and is set to grow to 82 billion metric tonnes
- In 2022, e-waste globally contained 4 million tons of metals classified as critical raw materials
- Mining for transition metals expensive and problematic, controversial seabed mining mooted

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### New tech to demetallize, recrystallize solar cells from end-of-life PV modules

For the metal contact recovery, the group used potassium hydroxide (KOH)-ethanol-water solutions to optimize the demetallization process. It tested various configurations of the solution on old monocrystalline solar cells.

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### E-scrap sector faces looming Basel amendment

Next January, another significant change along those same lines will come into effect: A wide range of end-of-life electronics will be covered by Basel regulations, largely prohibiting U.S. companies from shipping these materials overseas. The changes were approved by Basel party nations in 2022.

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# 2024

LISBON • PORTUGAL

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!

Sheraton Lisboa Hotel & Spa  
Lisbon, Portugal  
17th 18th and 19th November  
2024. More details to follow.

## HYDROGEN NEWS



### EU awards €720m to seven renewable hydrogen projects that will begin production in five years

These projects include the Lahti Power-to-Gas plant in Finland, El Alamillo H2 in Spain, Catalina in Spain, MadoquaPower2x in Portugal, Grey2Green-II in Portugal, Skiga in Norway and the HYSENCIA in Spain.

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### The first big-rig hydrogen fuel station in the U.S. opens in California

The first commercial hydrogen fuel station for big-rig trucks in the U.S. is up and running at the Port of Oakland, a baby step toward what H2 proponents see as a clean new future for long-haul trucking.

[READ MORE](#)



### Topsoe Announces Plans for New State-of-the-Art US Electrolyzer Factory for Clean Hydrogen

Federal tax credits from the Department of Energy under the Qualifying Advanced Energy Project Credit (48C) will support construction of Topsoe's second Solid Oxide Electrolyzer Cell (SOEC) factory.

[READ MORE](#)



### Global pipeline of hydrogen electrolysis projects grew by 55GW in past six months: analyst

There are currently 1.92GW of operational electrolysis projects around the world today, the analyst states, with about 15GW at an "advanced development stage", which Aurora expects will be on line "in the coming years".

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## SEMICONDUCTOR, EV, FUEL CELL RELATED



### Rising metal prices could mean more expensive laptops, PC parts, and other electronics in the near future

Higher copper and gold prices mean more expensive computers and appliances.

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### Chip wars: can US sanctions shift the semiconductor landscape?

Chinese semiconductor foundry firms are persistently adopting aggressive pricing strategies, putting relentless pressure on the market share of South Korean 8-inch wafer manufacturers. In this evolving landscape, South Korean industry insiders are eyeing potential benefits if the US expands its sanctions on China to encompass more mature semiconductor processes.

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### New circuit boards can be repeatedly recycled

A team led by researchers at the University of Washington developed a new PCB that performs on par with traditional materials and can be recycled repeatedly with negligible material loss.

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## OTHER PRECIOUS METALS NEWS



### Anglo rejects BHP's takeover bid as being too low and too complex

As widely expected, Anglo American Corporation has rejected the £31m takeover bid from BHP saying it "significantly undervalues Anglo American and its future prospects."

[READ MORE](#)



### A literal land grab for metal-and-mining assets has led to a spike in M&A activity, especially in emerging markets

For many mining players, the timing to ink a deal is right. After all, gold, demand hinges on the fact that the precious metal acts a hedge against sticky inflation.

[READ MORE](#)



### Implats to slash 3 900 jobs on weak PGM prices

News of Implats' retrenchment plans follows an announcement by Sibanye Stillwater two weeks ago that it could cut about 4 022 jobs at its gold operations in South Africa.

[READ MORE](#)



### Sibanye closes the loss-making 4B shaft at Marikana but minimises job losses

Sibanye Stillwater is to close the 4B shaft at its Marikana platinum operations near Brits affecting 1,496 employees and 54 contractors some five years after the group initially proposed closing it down in 2019.

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## Upcoming Events



### **IPMI EU Chapter: The Spring Reception**

May 15, 2024

Madison Rooftop Terrace,  
1 New Change, St Pauls, London EC4M 9AF

[REGISTER TODAY](#)



### **New England Chapter Jewelry Awards**

May, 2024

TBD



### **IPMI 48th Annual Conference**

June 8-11, 2024

Hyatt Grand Cypress Resort, Orlando, Florida

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### **New York Metro Chapter Fall Event**

September, 2024

New York City, NY



### **11th Annual Platinum Dinner**

September 12, 2024

St. Regis Hotel, New York City, NY

## Upcoming Events



### **EHS Operations Hybrid Seminar**

Fall, 2024

TBD



### **SAC Symposium IV**

October 14 - 16th, 2024

Colorado School of Mines, Golden, CO



### **New England Chapter Fall Networking Dinner**

October, 2024

Warwick, RI



### **2024 European Chapter Annual Seminar**

17th 18th and 19th November 2024

Sheraton Lisboa Hotel & Spa, Lisbon, Portugal



### **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



### **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



### **IPMI 54th Annual Conference**

June 8-11, 2030

JW Marriott Bonnet Creek, Orlando, Florida