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PLUS

- Student Awards
- Latest Industry News





The Phoenician,
Scottsdale, AZ
June 7-10, 2025

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STEP 1 REGISTER FOR THE CONFERENCE

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Please contact Sandra at mail@ipmi.org for more information.





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AGENDA: DAY 1

Saturday, June 7th

IPMI Golf Tournament

6:00-7:00 AM

The Phoenician Golf Club

- Golfer's Breakfast & Warmups

*Golfer's breakfast sponsored by **Italpreziosi***

7:00 AM

Shotgun Start

Longest Drive

*Sponsored by **CIBC***

Closest to the Pin

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Golfer's Luncheon

Luncheon at The Tavern at the Phoenician Golf Club

*Sponsored by **Ledoux***

Trophies

*Sponsored by **Axiom Scientific***

IPMI Conference

3:30-4:30 PM

Student Meet and Greet — *by invitation only*

5:00-6:00 PM

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

Sponsorship is Available

6:00-8:00 PM

Welcome Reception

*Sponsored by **Tanaka and Metalor***

8:00-10:00 PM

Dueling Piano Bar

Location: Portico

*Sponsored by **Dillon Gage***

Open Bar

*Sponsored by **Caurum***

Dessert

*Sponsored by **Techemet***

PRELIMINARY AGENDA: DAY 2

Sunday, June 8th

7:30-9:00 AM

Continental Breakfast

Sponsored by Hensel Recycling

8:00-4:00 PM

Exhibit Booths Open

8:30-10:00 AM

Session A

World of Precious Metals Finance - PGMs

Supply - Demand = Price + ? ...
Unpacking the Macro, Physical & Paper Flows and Sentiment in PGMs

Nicky Shiels, MKS Pamp

PGM Demand; Politics and the Fickle Finger of Fate. Shifting Sands and the Headaches for the Automakers

Rhona O'Connell, StoneX

PGM Mine Supply: Challenges and Opportunities

Yana Stunis (Anglo American)

Flexibility or Fragility? How Secondary Supply Influences PGM Price Elasticity

Wilma Swarts, Metals Focus

Panel Discussion

10:00-10:15 AM

Morning Break

Sponsored by CIBC

10:15-11:30 AM

Session B

Precious Metals and Clean Energy

PGM Applications in Renewable Hydrogen-Related Projects: South African Case

Dmitri Bessarabov, HySA

The Circularity Whitepaper: Showcasing an Industry Ready for the Future

Marge Ryan, Johnson Matthey

IPMI Precious Metals Innovation Challenge

Mark Caffarey, Umicore

11:30-12:00 PM

Member's Meeting

12:00-1:30 PM

IPMI Luncheon

Sponsored by BASF Environmental Catalyst and Metal Solutions

1:45-3:00 PM

Session C

Financial and Risk Management of Precious Metals

Precious Metals Price Management: Hedging Strategies and the Use of Commodity Price of Options

Charles Davis, Auramet

The Importance of Lot Traceability in Precious Metals Refining

Bill Tierney and Marcella Davis, CAI Software

The Evolving World of Risk and Risk Transference

Simon Codrington and Joe Pennock, Risk Strategies

3:00-4:30 PM

Women of IPMI & WiPGMs

Shine and Shield: Navigating Insurance and Fraud Protection in Precious Metals

Panel Discussion

Aline Hensel, Bureau Veritas
Antonella Ricciotti, A.Ricciotti Insurance Associates
Lauren Moise, AlpVision

Social Event

Sponsored by FidelityTrade and Delaware Depository

4:30-5:30 PM

Cigar Social

Sponsored by Glines and Rhodes

5:30-6:30 PM

Premier Member Social

— by invitation only

6:30-8:00 PM

IPMI Cantina

Open Bar

Sponsored by LBMA

Cantina sponsorship is available

8:00-10:00 PM

Country & Western Night - Music, Line Dancin', Open Bar & Dessert Reception

Entertainment Sponsors:

Platinum Sponsor:

Sponsorships are Available

Gold Sponsors:

Rand Refinery

Silver Sponsor:

United PMR

Additional Entertainment

Sponsorships of All Levels are Available

Open Bar

Sponsored by

Mitsubishi International Corporation

Dessert

Sponsorship is Available



PRELIMINARY AGENDA: DAY 3

Monday, June 10th

7:30-9:00 AM

Continental Breakfast

Sponsored by PMR

8:00-4:00 PM

Exhibit Booths Open

8:30-10:00 AM

Session D

World of Precious Metals Finance - Gold & Silver

From a Ratio of 100:1 to a Record Deficit: Making Sense of Silver
Philip Newman, Metals Focus

Asian Physical Markets' Response to \$3,000 Gold
Nikos Kavalis, Metals Focus and SBMA

Gold & Silver Financing: Flying Blind in a Storm of Tariffs
Amaryllis Gryllaki, Wells Fargo

The Future of Digital Gold
Joe Cavatoni, World Gold Council

Panel Discussion

10:00-10:30 AM

Morning Break

Sponsored by PMR

10:30-11:30 AM

Session E

Sustaining Programs Across the Precious Metal Value Chain

ESG as a Business Imperative - Creating Value Through Sustainability
Rajeev Mishra, Hindustan Platinum

11:30-12:30 PM

Session F

Responsible Sourcing

LBMA Sustainability & Responsible Sourcing Outlook
Ed Blight and Alan Martin LBMA

LPPM's Responsible Sourcing Programme
Jonathan Butler, LPPM

AML Compliance
Deborah Thoren-Peden
Connie Fenchel
Pillsbury Winthrop Shaw Pittman LLP

Panel Discussion

All Speakers
Alice Vanni, Italtreasures
Jonathan Jodry, Metalor

12:30-1:45 PM

IPMI Delegate Luncheon

Sponsorship is available

1:45-3:00 PM

Session G

PGM Refining Technologies and Autocat Recycling Trends

OEM vs. Aftermarket : An Evaluation and Analysis
Ben Davis, Davis Recycling

Recovering Precious Metals from Homogeneous Catalysis Waste in Liquids.

Martijn Mertens, Indaver

New Methods for PGMs Extraction - Updates on pH7's Process
Luke Ehman, pH7 Technologies

PGM Refining: A Journey from Innovation to Rare Excellence
Ankit Gupta, Hindustan Platinum

3:00-4:30 PM

Afternoon Party

Sponsored by Gannon and Scott

5:00-6:00 PM

Happy Hour

Sponsored by Bureau Veritas

6:00-8:00 PM

Sabin Reception

Sponsored by Sabin Metal Corporation

8:00-10:00 PM

IPMI Mastermelt - Concert, Open Bar & Dessert

Sponsored by Mastermelt



PRELIMINARY AGENDA: DAY 4

Tuesday, June 9th

7:30-9:00 AM

Continental Breakfast
Sponsored by Brinks

8:00-12:00 PM

Exhibit Booths Open

8:30-9:30 AM

New Horizons - the Future of Precious Metal Technology: Part I

A Precious Technology – Benefit and Simplicity of Recovering Precious Metals from Scrap
Sofia Violi, Violi Macchine

A.I.D. Artificial Intelligence Detection

Filippo Piomboni, Tera Automation

HSR® - High Surface Refining: a New Development in Precious Metal Refining Process

Federico Padrono Martini, IKOI

9:30-9:45 AM

Morning Break
Sponsored by Techemet

9:45-11:00 AM

New Horizons - the Future of Precious Metal Technology: Part II

Tera Automation's Disruptive Technology for Coin and Bullion Production
Luca Fiorini, Tera Automation

Fine Chemicals Industry (Faggi Enrico) Using Molecular Recognition Technology™ (MRT™)
Steven Izatt, IBC Advanced Technologies

Innovative Patented Hydrometallurgical Process for the Recovery and Extraction of Rhodium, Platinum and Palladium
Francesco Vegliò, University of Aquila, Italy

Rare Earth Recycling - An Updated Source in PGM Refining
Alexa Schmitz, REEGen, CEO & Co-Founder

11:00-12:00 PM

Sampling and Analytical Meeting

Algis Naujokas, Sabin Metals
All Attendees Invited

12:30 PM

Student Lunch
— by invitation only
Sponsored by European Chapter of the IPMI

1:30-2:45 PM

Student Presentations Part 1

2:45-3:00 PM

Afternoon Break

3:00-4:15 PM

Student Presentations Part 2

6:00-7:00 PM

President's Reception
Sponsored by Risk Strategies

7:00-9:00 PM

Awards Banquet
Awards Banquet Wine Sponsored by QML

Entertainment Sponsorship is Available

9:00-10:00 PM

Closing Dessert Reception and Open Bar
Sponsorship is available

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IPMI Internship Program

Sponsored by FidelityTrade

As you know our Foundation has an extensive awards program for PhD level students. We also want to bring to your attention that we also have an internship program for undergraduates with a focus on Chemical Engineers and Chemists, but open to all educational disciplines.

Our program process is up to two of our member companies per year can apply for participation in our program. We assist them in the recruiting but the final decision as to who they hire is up to them. The students selected will receive a \$10,000 internship award from our Foundation's Endowment -- sponsored by FidelityTrade Inc. -- at the end of completing their assignment. The hiring company is responsible for paying the student.

Obviously the biggest potential benefit is getting hired upon graduation. We are generally looking for those in their Junior year so the company can possibly have 2 different assignments with the student. However, Seniors and Sophomores can also be included as well. There is another perk in that the student will also be invited to our Annual Conference which is typically attended by 500+ industry professionals from every aspect of the precious metals industry. They will join the 7-8 other PhD student award winners who are present at the conference. They will also present a paper at the conference describing their work.

There is complimentary registration and hotel accommodations provided by IPMI. The hiring company reimburses the student for their travel cost. This is a relatively new program and was typically a summer internship. However, some of our member companies are open to a longer assignment such as can be obtained through working with a Co-Op program where students attend school for 6 months and then work for 6 months.

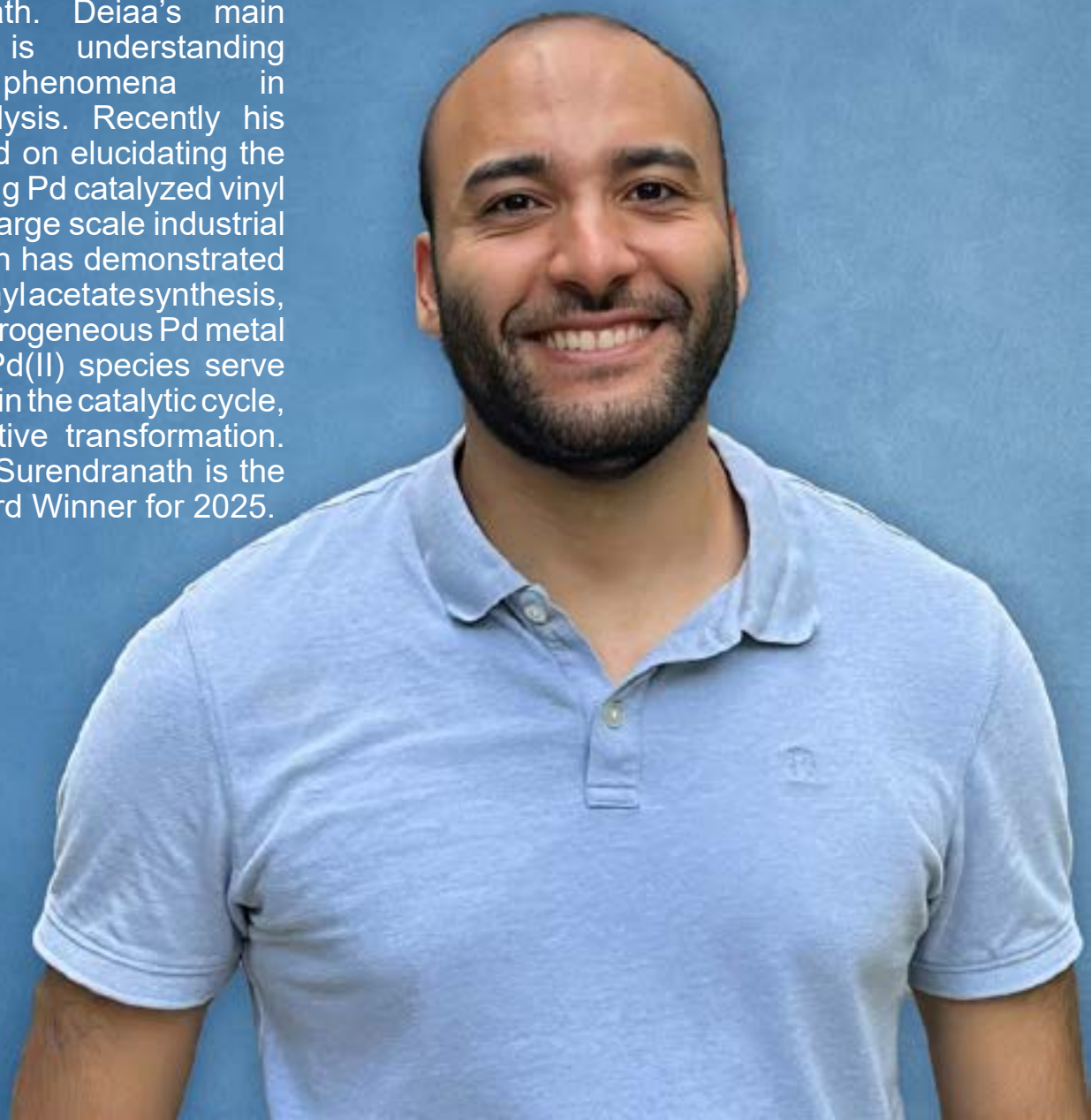
If you are interested in applying to host a student intern for this year's program please contact **Larry Drummond** at ljd@ipmi.org.

2025 Student Award Winners

IPMI Premier Student Award
sponsored by Ames Goldsmith and Colonial Metals

Deiaa Harraz, MIT

Deiaa completed his undergraduate studies at the University of Maryland, College Park in 2018, with dual degrees in chemistry and chemical engineering. Currently, he is a PhD candidate in chemistry at MIT, in the lab of professor Yogesh Surendranath. Deiaa's main research interest is understanding electrochemical phenomena in heterogeneous catalysis. Recently his research has focused on elucidating the role of corrosion during Pd catalyzed vinyl acetate synthesis, a large scale industrial process. His research has demonstrated that in Pd catalyzed vinyl acetate synthesis, catalysis by both heterogeneous Pd metal and homogeneous Pd(II) species serve complementary roles in the catalytic cycle, to enable this selective transformation. His advisor, Yogesh Surendranath is the Student Advisor Award Winner for 2025.



2025 Student Award Winners

IPMI Student Award

Lianshun Luo, Carnegie Mellon

Lianshun (Evan) Luo is a PhD candidate in chemistry at Carnegie Mellon University under the guidance of Professor Rongchao Jin. He holds bachelor's and master's degrees in Materials Science and Engineering, where he researched porous materials and wastewater treatment. Now, his research focuses on ultra-small gold nanorods with atomic precision for near-infrared bioimaging. Evan has published several widely cited papers in top journals, including Proceedings of the National Academy of Sciences of the United States of America and Journal of the American Chemical Society. Outside the lab, he enjoys intense fitness, basketball, and cooking



2025 Student Award Winners

IPMI Europe Chapter Student Award

Maria Chiara Massaro, Politecnico di Tornio

Maria Chiara Massaro's research focuses on hydrogen applications in heavy-duty transportation, specifically advancing Proton Exchange Membrane Fuel Cells (PEMFCs) for zero-emission solutions. By combining experimental testing, system-level assessment, and modeling, she evaluates platinum-based catalysts to optimize their efficiency and durability. Through the analysis of key fuel cell components and operating conditions, her work contributes to the development of high-power, reliable fuel cell systems for sustainable heavy-duty applications.



2025 Student Award Winners

IPMI Colonial Metals George Benvegno Memorial

Monika Snowden, Queens University



Monika Snowden is a researcher with expertise in organic chemistry and nanotechnology.

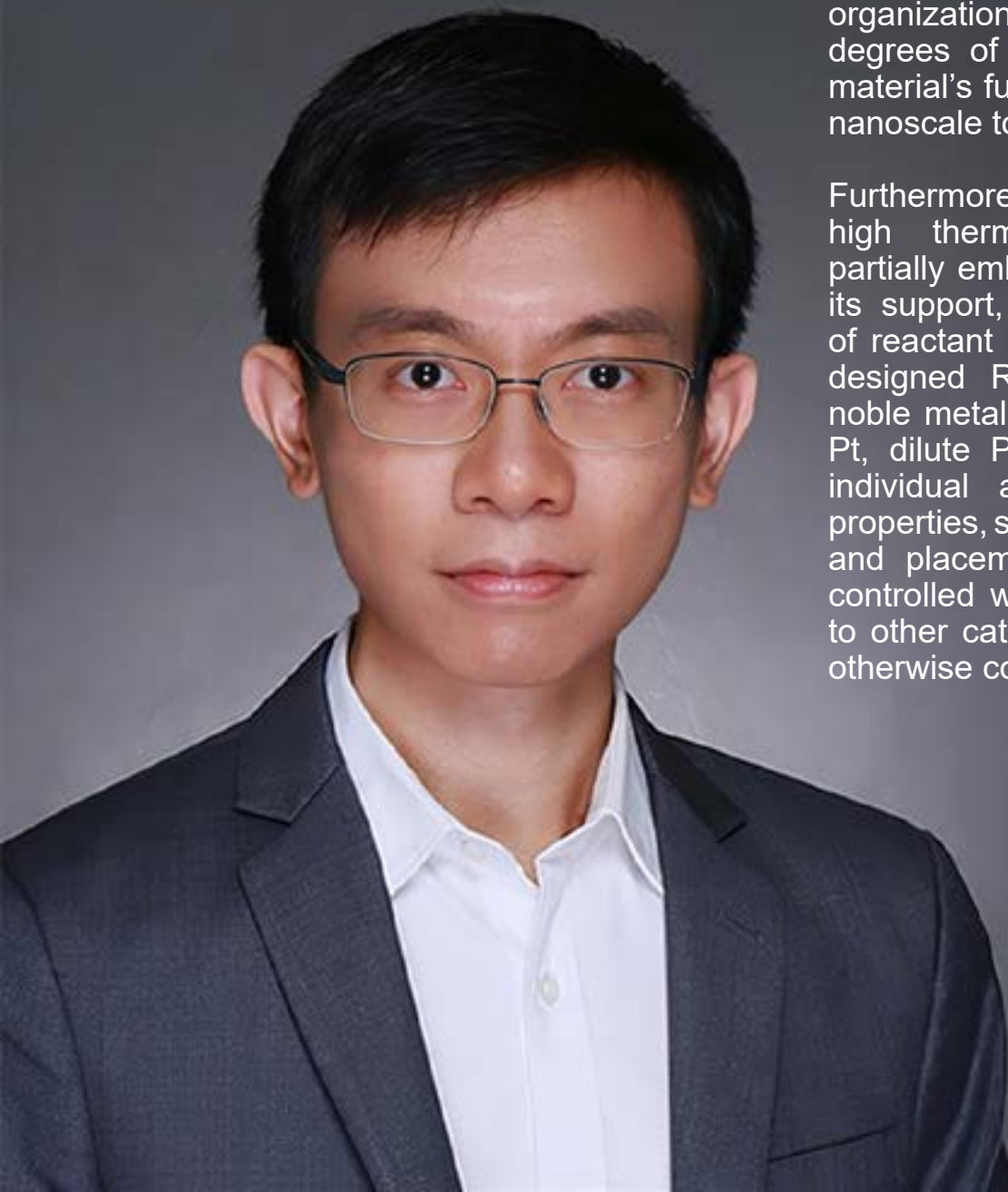
She is currently working as a Postdoctoral Fellow in the Crudden Lab at Queen's University, developing N-heterocyclic carbene polymers for metal protection in various environments.

Her current focus is on gold and other precious metals. Monika hosts the IMNano podcast filtering out the jargon from cutting-edge scientific research and sharing the perils and joys of lab work.

2025 Student Award Winners

**IPMI Sabin Metal
Ron Bleggi Award**

Kang Rui Garrick Lim, Harvard



The performance of noble metal nanoparticle (NP)-supported catalysts, which play a key role in the industrial production of most chemicals and fuels we use today, is strongly correlated to physicochemical properties of the NP, support, and interactions between them.

However, current catalyst preparative methods do not afford the synthetic flexibility to independently tune and isolate the effects of individual structural descriptors on catalytic performance. To address this challenge, He developed a modular raspberry-colloid-templating (RCT) catalyst platform that enables independent combinatorial variations of the material's building blocks and their organization, thereby affording numerous degrees of freedom for optimizing the material's functional properties, from the nanoscale to the macroscale.

Furthermore, the RCT method confers high thermomechanical stability by partially embedding nanoparticles within its support, while retaining high levels of reactant accessibility. In his PhD, he designed RCT catalysts incorporating noble metal nanoparticles (e.g., Au, Pd, Pt, dilute Pd-in-Au) and illustrate how individual and collective nanoparticle properties, such as nanoparticle proximity and placement, can be independently controlled without concomitant changes to other catalytic descriptors that would otherwise confound catalytic analyses.



2025 Student Award Winners

IPMI Metalor Student Award

Michael Gresh-Sill, University of Minnesota

Michael is a graduate student in the Chemical Engineering Department of University of Minnesota Twin Cities. His research involves Inorganic Promoters in Ag/a – Al₂O₃ Olefin Epoxidation Catalysts.



2025 Student Award Winners

IPMI Bright Futures Student Award

Shiyi Yang, Rutgers

Catalysis drives modern pharmaceutical synthesis, yet many cross-coupling reactions remain limited by catalyst stability, selectivity, or efficiency. His research focuses on developing novel N-heterocyclic carbene (NHC) ligands and palladium catalysts that overcome these limitations. These air- and moisture-stable catalysts enable late-stage functionalization of complex pharmaceuticals, providing new strategies for modifying drug molecules with unique precision. This presentation will explore how these innovations are influencing the field, from transition metal catalysts development to real-world applications in drug discovery.





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2025 Student Award Winners

IPMI Johnson Matthey Student Award

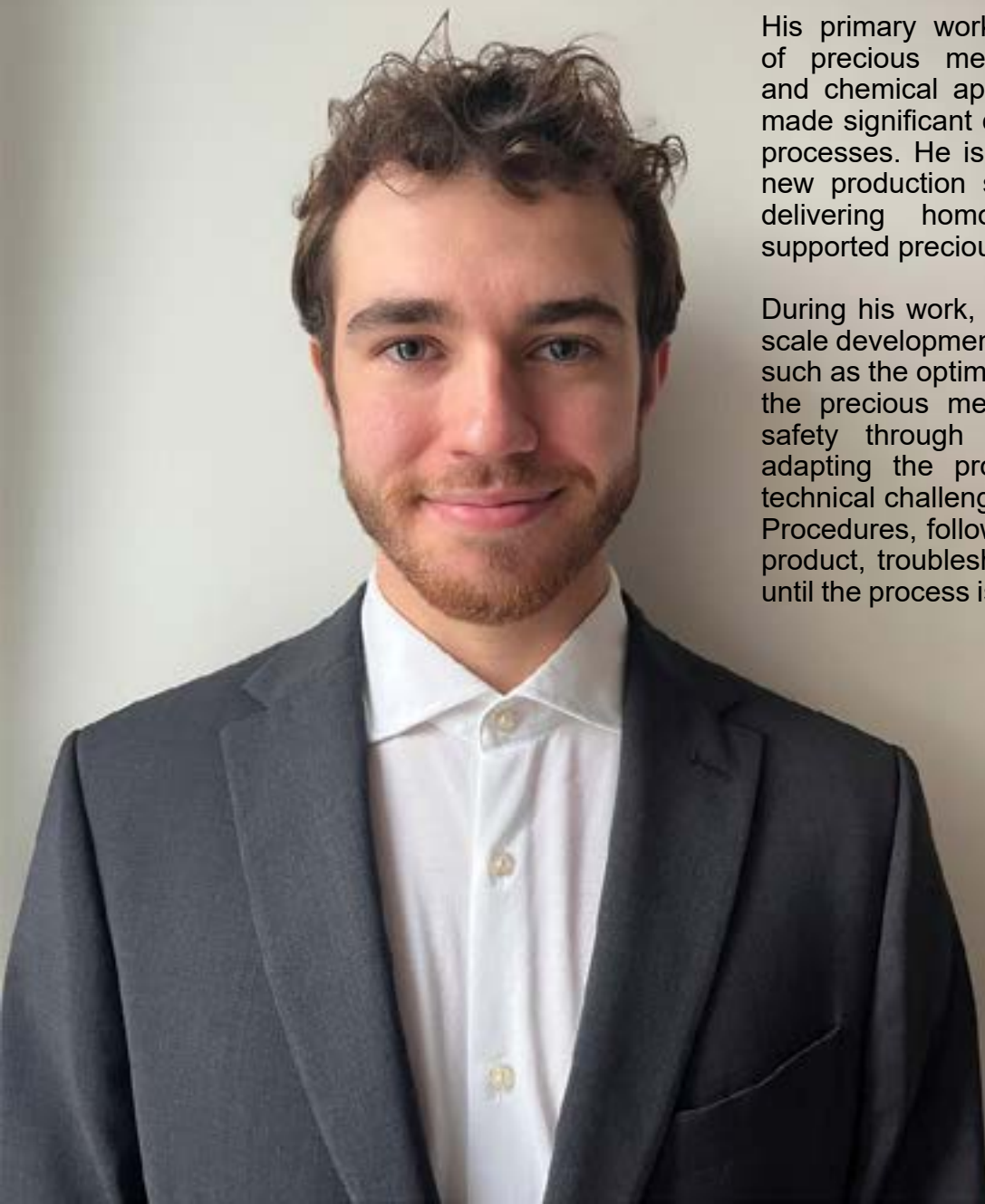
Erfan Oftadeh, UCSB

What makes the iPhone so iconic? It's not just the advanced technology—it's the simplicity. Intuitive design, streamlined function, and accessibility transformed how we interact with technology. In chemistry, we often think complexity is key to performance. But what if sometimes simplicity like in the iPhone—could deliver even better results? His research takes that idea to heart. They have developed a remarkably simple phosphine ligand that performs really well in palladium-catalyzed cross-coupling reactions; one of the most important tools in making pharmaceuticals, agrochemicals, and advanced materials. Unlike traditional ligands, theirs is synthesized in a single step, and eliminates the need for harsh reagents. It's efficient, scalable, and sustainable; everything modern industry possibly demands. In a world where regulations are tightening and green chemistry is no longer optional, this ligand can potentially offer a practical, powerful solution for cleaner, cost-effective manufacturing using Pd as catalyst.

2025 Student Award Winners

IPMI Intern Award

Dany Ferreira Veloso, Metalor



Dany holds a Swiss Federal Certificate of Competence as a Chemical Laboratory Technician, which he earned through his studies at the CPNE (Neuchâtel, Switzerland) and practical training in the analytical laboratory of Metalor Technologies S.A. Following this training, he obtained a Federal Vocational Baccalaureate in order to access the universities of applied sciences in Switzerland.

After obtaining a Bachelor's degree in Chemical Engineering with a specialization in Industrial Chemistry, Dany is currently pursuing his master's degree in Life Sciences with a specialization in Chemical Development and Production at the Swiss Science University of Fribourg, Switzerland (HEIA-FR) while gaining hands-on experience through his part-time internship with Metalor. Over the past fifteen months, he has demonstrated outstanding dedication, technical expertise, and a strong drive for innovation in the field of precious metal catalysts.

His primary work focuses on the industrialization of precious metal catalysts for pharmaceutical and chemical applications across Europe. He has made significant contributions by improving reaction processes. He is involved in the development of a new production site focused on synthesizing and delivering homogeneous, heterogeneous, and supported precious metal-based catalysts.

During his work, he follows new products from lab-scale development to production. This includes steps such as the optimization of the synthesis, developing the precious metal recovery processes, ensuring safety through state-of-the-art safety analyses, adapting the production equipment to safety or technical challenges, writing the Standard Operating Procedures, following the large-scale batches of the product, troubleshooting, and training the operators until the process is ready for autonomous production.

In the context of his Master's thesis, he is working on bringing a new homogeneous catalyst to the company's portfolio. This involves preparing every aspect that needs to be ready before the implementation of a new product into production. This includes creating a business case for the product, industrializing the product, designing the production line, and developing the analytical methods to ensure that the product meets customer expectations.



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March 12, 2025

TANAKA PRECIOUS METAL GROUP Co., Ltd.

TANAKA PRECIOUS METAL TECHNOLOGIES Develops Miniaturized Micro Profile, a Next-Generation Contact tape for Fifth-Generation Signal Relays

Achieving a tape width of 0.2 mm for contact tapes to enable smaller relays

TANAKA PRECIOUS METAL TECHNOLOGIES Co., Ltd. (Head Office: Chuo-ku, Tokyo; Representative Director & CEO: Koichiro Tanaka), a company engaged in the industrial precious metals business of TANAKA, announces the development of its [miniaturized micro profile tape](#), a next-generation contact for fifth-generation signal relays. It has achieved a **minimum width of 0.2 mm, making it the smallest-sized contact tape for fifth-generation signal relays**. As relays become smaller, using miniaturized micro profiles can make contacts lighter in weight and suppress bounce and chattering*¹ during the opening and closing of contacts. Shipment of this product's samples is scheduled to start in late March 2025.



Miniaturized micro profile (Contact tapes)

Micro profiles are ultra-small contacts used in relays and switches, which are the signal control components in electronic devices. Relays are components that take in external electrical signals and carry out the opening and closing or switching of electric circuits. They are widely used in a variety of devices, such as those for communications and facilities and consumer electronics. Contacts embedded in relays responsible for the opening and closing of electric circuits require a high level of reliability as they may cause wrong operation or malfunction of devices if they do not operate properly.

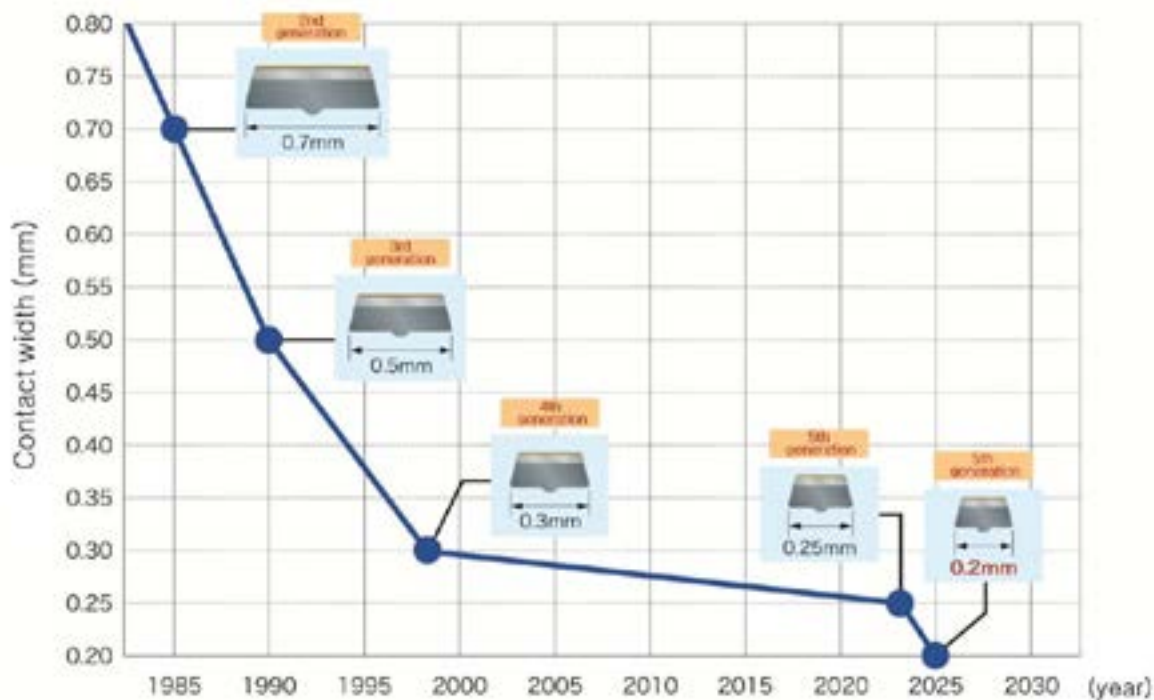
In recent years, the miniaturization of electronic devices has led to an increased demand for smaller relays. As relays shrink in size, the weight of the contact that causes bounce during opening and closing has become a significant issue. It is believed that bounce **can be minimized by using smaller and**

lighter contacts. By reducing bounce, electrical signals can be controlled more accurately, which helps to prevent malfunctions in devices. Additionally, smaller contacts contribute to resource savings by reducing the amount of precious metals used, ultimately lowering costs. TANAKA has successfully developed miniaturized contacts through years of research and development in precious metal materials, along with advanced processing technology.

■ Next-Generation Contact for Fifth-Generation Signal Relays

Since entering practical use in the 1830s, relays have been embedded in various electronic devices. Relays that control larger signals using relatively smaller signals (contact opening and closing current of up to 2 A) are called signal relays. Research and development of signal relays and contacts have progressed together with the development of electronic devices, with relays and the contacts inside them becoming smaller.

TANAKA has been developing contacts for signal relays since the 1970s, succeeding in developing contacts (0.3 mm tape width) for fourth-generation signal relays in 1998 and contacts (0.25 mm tape width) for fifth-generation signal relays in 2023. Fifth-generation signal relays are used in various fields requiring a high level of reliability, such as communication devices, semiconductor inspection equipment, medical devices, network cameras, smart consumer electronics, and automobiles.



History of signal relay contact miniaturization ※Based on research by TANAKA

■ Miniaturized contact that is compatible with various materials and methods

The miniaturized micro profile contact tapes of TANAKA is compatible with various materials and methods. Multilayer contacts using different types of metals are available for a wide range of electric loads and are achieved through employing unique precision bonding techniques.

<Features of micro profiles (contact tapes)>

1. Allows multilayer bonding of different types of metals
2. Contact tape with excellent bonding strength across its entire length
3. Allows reduced sizes of relays and switches

March 25, 2025

TANAKA PRECIOUS METAL GROUP Co., Ltd.

TANAKA Announces Executive Appointments

TANAKA PRECIOUS METAL GROUP Co., Ltd. (Head office: Chuo-ku, Tokyo: Group CEO: Koichiro Tanaka) announces that its Board of Directors tentatively decided, at a meeting held on February 17, 2025, the appointment of an executive for TANAKA PRECIOUS METAL GROUP Co., Ltd. (This matter is scheduled to be approved at the Annual General Meeting of Shareholders on March 27, 2025).

■ Press inquiries

TANAKA PRECIOUS METAL GROUP Co., Ltd.

https://www.tanaka.co.jp/support/req/other_contact_e/index.html

GOLD NEWS



Gold Price Forecast – A Surge Above \$3,200 Expected Before April Peak | FXEmpire

Gold broke through \$3,100 following a short consolidation, and we're likely entering the final leg of the rally into an April peak.

[READ MORE](#)



Gold may enter overbought territory after recent rapid gains

Despite its strong performance, some analysts are questioning whether the precious metal may be entering overbought territory. As at Mar 20, gold closed at record levels 16 times in the first quarter, following an exceptional 2024, which saw a total of 46 record highs.

[READ MORE](#)



Gold rises to new high on tariff, inflation worries with bullish trend 'firmly intact'

"A simple regression analysis shows that over the period since early 2024, gold has turned into a momentum trade, which appears to be backed less by fundamentals and driven more by momentum," wrote Societe Generale researchers and strategists in a note last month.

[READ MORE](#)



WGC: 29% of central banks to buy gold in 2025

The council revealed in a report that 29% of central banks intend to purchase gold this year to rebalance reserves to a more strategic level amid market uncertainty, and persistent inflation.

[READ MORE](#)

SILVER NEWS



Gold/Silver: How fast can silver hit \$50 and \$3500 gold?

Silver finally closed above \$35, and the double top formed on the charts from last October and mid-March. But the question remains: Is this just another setup for disappointment, and when will it hit \$50?

[READ MORE](#)



Electrostatic InkJet printed silver grids for non-vacuum processed CIGS solar cells

Here, we demonstrate the use of Electro-Static Inkjet (ESJET) printing technology to deposit silver nanoparticle (Ag nps) inks as grid electrodes for non-vacuum processed Cu(In,Ga)S₂ (CIGS) solar cells

[READ MORE](#)



Solar panels and the price of silver

According to China Photovoltaic Industry Association (CPIA) statistics, world photovoltaic silver paste consumption was 3,478 tons, of which 3,174 tons was used inside China (worth \$2.5 billion) in 2021 – figures which more than doubled by 2024.

[READ MORE](#)



Gold Sinks \$100, Silver -7% as Trump Exempts 'Bullion' from US Trade Tariffs

Peaking at \$3,167/toz ounce during early Asian hours – gold's 21st new record of 2025 so far, and extending gold's strongest calendar quarter in over 38 years – the price of bullion for London settlement then dropped 3.1% to erase all of this week's previous gains before rallying to \$3090/toz.

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PLATINUM GROUP METALS



Despite cautionary indicators, platinum price will rise within a year, analyst says

Although the global economic and industrial “dashboard is littered with red and yellow indicators”, Metals Focus PGMs research director Wilma Swarts believes there are long-term upsides to platinum, in particular.

[READ MORE](#)



Trump tariffs offer perfect window for buying platinum shares

“Everything is down except gold so perhaps that’s something we should be buying.” Hochreiter’s assessment was that “the surplus rhodium stocks are gone. The platinum shares are likely to bumble along until the surplus surface stocks of platinum and palladium are gone and then – a year or two out – you are going to see a big upward reaction in the share prices.”

[READ MORE](#)



PGM Day highlights ruthenium’s bright future in hydrogen, biomass, electronics

After listening to Heraeus Precious Metals trading head Dominik Sperzel placing ruthenium on a new high pedestal and describing this low-profile PGM as “my personal favourite”, Platinum Group Metals (PGM) Industry Day chairperson Bernard Swanepoel remarked that he’d never met a person who speaks passionately about ruthenium but that, “We love it”.

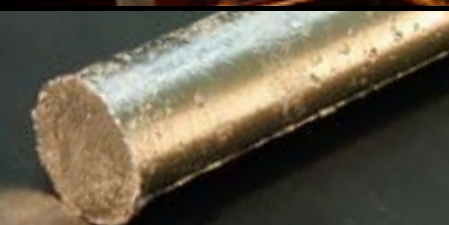
[READ MORE](#)



Why rhodium is now the most expensive metal in the world

But its real claim to fame lies under the hood—literally. Roughly 90% of global rhodium production is used in automobile catalytic converters, where it helps reduce toxic emissions from car exhaust.

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E-WASTE & PRECIOUS METALS RECYCLING RELATED



PV module recycling tech based on electrohydraulic shockwave fragmentation

An international research team has developed a new machine that utilizes shockwaves to separate the different materials of a solar PV module. Chemical processes can be further used to extract silicon and silver. Results show the recovery of more than 99.5% of the original weight of the panels.

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How Electronics Reuse and Recycling Has Changed and What Next: Part 1

Electronics recycling is an evolving model. In this two-part Waste360 series, Sunnking President Adam Shine discusses what has changed over 25 years for the company—New York's first R2-certified electronics recycler.

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The global increase in electronic waste – EHN

A U.N. report estimates ~ 62Mt of e-waste were generated in 2022, with projections to reach 82Mt by 2030. Despite valuable materials like copper and gold within e-waste, only 22% was properly recycled in 2022, and this is expected to decrease.

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European Union Proposes Mandatory Repair Law to Cut E-Waste

In 2024, the European Commission took a significant step towards sustainability by proposing a mandatory repair law. This regulation aims to require manufacturers to offer repair options for consumer goods like smartphones, tablets, washing machines, and TVs.

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SEMICONDUCTOR, EV, FUEL CELL RELATED



Gartner Says Worldwide Semiconductor Revenue Grew 21% in 2024

Worldwide semiconductor revenue totaled \$655.9 billion in 2024, up 21% from \$542.1 billion in 2023, according to final results by Gartner, Inc. NVIDIA climbed to the No. 1 position, overtaking Samsung Electronics and Intel for the first time

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TEHCET Forecasts Strong Expansion in Sputtering Targets

TEHCET — the electronic materials advisory firm providing semiconductor materials supply chain information — projects semiconductor sputtering target revenues to grow near 9% in 2025, reaching \$1.45 billion.

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Global Semiconductor Sales Increase 17.1% Year-to-Year in February

The Semiconductor Industry Association (SIA) today announced global semiconductor sales were \$54.9 billion during the month of February 2025, an increase of 17.1% compared to the February 2024 total of \$46.9 billion and 2.9% less than the January 2025 total of \$56.5 billion.

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The Semiconductor Newsletter - Edition Week 14 - 2025

Global Semiconductor Sales Reach \$54.9 Billion in February 2025: February posted double-digit growth across major regions, led by the Americas.

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HYDROGEN NEWS



Fincantieri and Viking Set Sail with First Hydrogen Cruise Ship: A Game-Changer for Clean, Zero-Emission Cruising

Fincantieri and Viking are joining forces on something that could truly change the game for cruise travel: the first-ever hydrogen cruise ship

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Airbus unveils new hydrogen aircraft

The latest concept features a H₂-powered aircraft equipped with four 2-MW electric propulsion engines, each driven by a fuel cell system that converts H₂ and oxygen into electrical energy.

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Smoltek Hydrogen's Nanotechnology Breakthrough Sheds Light on Sweden's Green H₂ Future

At the core of Smoltek's breakthrough is its signature carbon nanotechnology, a platform rooted in years of work studying how to grow carbon nanotubes in highly controlled and useful ways.

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Honeywell unveils AI-assisted suite to optimize green hydrogen plants

Honeywell Protonium uses machine learning to optimize the design and operation of green hydrogen projects. Aternium, a US-based large-scale clean hydrogen producer, will deploy the technology at its planned Mid-Atlantic Clean Hydrogen Hub.

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OTHER PRECIOUS METALS NEWS



Global auto sales to reach 89.6M in 2025—S&P Global Mobility

Global new light vehicle sales are expected to increase 1.7% year-on-year to 89.6 million units in 2025, according to a forecast by S&P Global Mobility.

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South Africa invited to help uplift palladium demand by 1.7-million ounces a year

Potential new palladium applications highlighted in Johannesburg include:

- Using a layer of palladium to minimise the light loss of solar panels;
- Upgrading hydrogen fuel cell performance;
- Lowering green hydrogen production costs;

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Song of ice and fire in reality: physicists discover a new quantum state of matter

Physicists Weigo Yin and Alexei Tselik have discovered a new quantum phase of the one-dimensional ferromagnet Sr₃CuIrO₆, which is a compound of strontium, copper, iridium, and oxygen.

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Lithium-Rich Oxygen Batteries with Low Metal Loading Based on Iridium Single-Atom Electrocatalysts

Gentle synthesis approach to fabricate a stable iridium single-atom electrocatalyst (Ir/N-PAQR SAC). To keep the structural stability and catalytic activity of a single-atom catalyst, the SAC approach is preferred over high-energy ball milling for the synthesis of cathode ...

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The Colorado School of Mines
Golden, Colorado



IPMI Winter Meeting

February 22-24, 2026
Hyatt Grand Cypress Resort
Orlando, Florida



IPMI 50th Annual Conference

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



IPMI Winter Meeting

March 1-3, 2027
Disney's Coronado Springs 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



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