

connecting you to the world of precious metals™

Precious Metals News

Volume 44, Number 6

June 2020

IPMI Announces 2020-2021 Officers



President Becky Berube



Vice President Miquel Perez-Santalla



Treasurer Dave Deuel



Secretary Zac Henneman

President's Remarks

Becky T. Berube

It is an honor to serve the International Precious Metals Institute as its President this year even as I pen these remarks during a mid-COVID world where our annual conference has been postponed until November. It is an even greater honor to serve as its second female President following the late Carol Tyler who loved the IPMI. The Institute and the Educational and Scientific Foundation have each given us a deeper understanding of both the science and the business of precious metals, and has allowed us to connect, to build relationships, and to build careers within the world of precious metals.

The Institute means so much to so many. For many of us, membership in the IPMI spans our entire careers, for others, membership has just begun, and its value is still to be discovered.

For me, it was 1993, the year that CERN placed its World Wide Web technology into the public domain. While on a customer visit to A-1 Specialized I noticed an IPMI calendar. Being curious, I jotted down the address and phone number, called the Allentown, PA office, where Georgianne Batley explained membership to me and invited me to the seventeenth International Precious Metals Conference in Newport, Rhode Island. It was serendipitous that the conference was in my backyard and I had learned about it just in time to attend.

At that conference proceeding the world of precious metals was opened to me and the small converter recycling company that my husband, Tim, and I had founded just two years earlier. We were 25 years old at the time. I vividly remember listening attentively in

the sessions, mingling in the receptions and touring the mansions, learning the players in our industry, Johnson Matthey, Engelhard, Union Minière, and Tanaka. Meeting a young Philippe Van Maele on a tour bus wearing his black Doc Martins, exchanging business cards that would one day produce a visit to Belgium, a business relationship. and years later working together at Umicore for a short time. I was a sponge. I understood maybe 2 percent of what Raj Mishra presented on Recovery and Refining of Precious Metals from Secondary Sources. Thankfully, I met Dr. Corby Anderson who I peppered with questions ad nauseum and who invited Tim and me to a short course on fire assay at Montana Tech. And, of course, I received a conference binder with all the attendees contact information and a copy of the technical papers in a bound book of the conference proceedings which was all I needed to get started moving our business forward. My education in precious metals had begun and I was a willing student. At the time, the cost of membership and attending the conference was a sacrifice, but over the years that cost has yielded untold benefit.

With every chapter event and annual meeting, I grew personally and professionally. Nervously and with some trepidation, knowing no one, I drove up to the Wannamoisett Country Club in East Providence, Rhode Island to attend the New England Chapter annual clam bake, and was quickly welcomed in. Everything was a first. Fred Saada invited us to Sumitomo Corporation on Madison Avenue and brought

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IPMI Acknowledges and Thanks the Support of our New Premier Members

Platinum Members

BASF

Gannon and Scott

Heraeus

Johnson Matthey

Mastermelt Group of Companies

Metallix Refining

Sabin Metal

Techemet

Palladium Members

Asahi Refining

FideliTrade Inc.

Hensel Recycling

PGM of Texas

ReCat GmbH

QML

Sims Recycling Solutions

Umicore

United Catalyst Corp.

IPMI Appreciates the Continued Support of our Premier Gold Members

Alex Stewart International

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APMEX

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Aurubis

Axium Scientific

BRM Services Inc.

Brinks Global Services

Colt Refining Inc.

Cotecna

CNT, Inc.

David H. Fell and Co., Inc.

Direct Bullion

Dillon Gage Metals Division

Garfield Refining

Glencore

Heesung PM Tech

Hindustan Platinum Private

Hugh Wood

IBC Advanced Technologies

IBI Secured Transport

IRT

JBR Recovery

K.A. Rasmussen

Kinsbursky Brothers

Kitco Metals Inc

Ledoux

Loomis International

MAIREC

Metallica Commodities Corp

Metalor

Mitsubishi

Phoenix Group Metals

Remondis

RS Bruce

SGS Minerals Services

Sipi Metals Corp.

Stillwater Mining Co.

Tanaka Kikinzoku Kogyo

Toyota Tsusho America Inc

Upstate Coins & Gold

Umicore Jewellery and Industrial Metals

US Assets Recovery

IPMI Announces 2020-2021 Board Members

Becky Berube, United Catalyst Corp.
Chris Bone, Axium
Robert Bullen-Smith, Johnson Matthey
Jonathan Butler, Mitsubishi
Mark Caffarey, Umicore
Simon Codrington, Hugh Wood
Steve Contreras, PGM of Texas
Brad Cook, Sabin
Mitch Coughlin, Colt Refining
Steve Crogan, Bluewater
Joe DeRosa, Loomis
David Deuel, Gannnon & Scott
David Dorris, Asahi
John Dourekas, Kitco
Zac Henneman, BASF

Ian Holden, Sims
Josh Husvar, Cotecna
Theo Keuter, Platinor
Hitoshi Kosai, Tanaka
Oliver Krestin, Hensel Recycling
Zibi Milkiewicz, Krastsvetmet
Philip Newman, Metals Focus
Miguel Perez-Santalla, Heraeus
Steve Scacalossi, Scotiabank
Scott Schwartz, FideliTrade Incorporated
Edgar Smith, Toyota
Robyn Sprott, IDS/Dillion Gage
Mike Troxell, Mastermelt
Ben Van Klerkwijk, Brinks



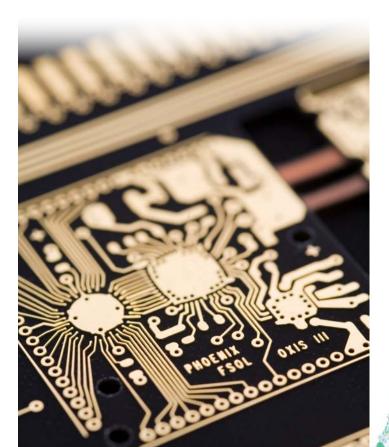
Palladium Member Profile

Umicore

Umicore is a global materials technology and recycling group. It focuses on application areas where its expertise in materials science, chemistry and metallurgy makes a real difference. Its activities are organized in three business groups: Catalysis, Energy & Surface Technologies and Recycling. Each business group is divided into market-focused business units offering materials and solutions that are at the cutting edge of new technological developments and essential to everyday life.

Umicore generates the majority of its revenues and dedicates most of its R&D efforts to clean mobility materials and recycling. Umicore's overriding goal of sustainable value creation is based on an ambition to develop, produce and recycle materials in a way that fulfils its mission: materials for a better life.

Umicore's industrial and commercial operations as well as R&D activities are located across the world to best serve its global customer base. The Group generated in 2019 revenues (excluding metal) of € 3.4 billion (turnover of € 17.5 billion) and, as at 31 December 2019, employed 11,152 people.





LIVE IPMI WEBINAR

In partnership with:

KITCO MEDIA

Precious Metals Industry Collaborative Event to Share Effective AML, Security, and Logistics Risk Mitigation Practices

STREAMING LIVE ON

JULY 22ND - 10 AM EST / 4 PM CET

A panel discussion on current Security, Anti-Money Laundering and Corporate Compliance Issues facing the precious metals industry. Our panel will provide valuable references on anti-money laundering procedures, security initiatives and challenges facing armored car/logistics providers. Please join us in this collaborative exchange of information on how to protect your hard earned assets and industry reputation.

DO YOU HAVE ANY QUESTIONS FOR OUR PANELISTS?

We encourage you to submit them ahead of time by e-mail to mail@ipmi.org

Representative Companies

MODERATOR

STEVEN F. CROGAN IPMI SECAM CHAIR Director, Risk Mitigation

BLUE WATER
RISK MANAGEMENT, LLC

SAMANTHA MCCOURT
Business Unit Manager



MONICA MELLAS VP, Global Security



DOUGLAS C. HUBER, CISSPIT Cyber Fraud Specialist

RANDY WEINERMAN

Division VP
Anit-Money Laundering Coordinator



BOB LONGSecurity Manager



Watch LIVE on the platform of your choice:







Registration is FREE - Reserve your seat NOW

Webinar instructions will be sent shortly after you register.

Contact: Sandra Arrants, International Precious Metals Institute 850-476-1156, or email mail@ipmi.org

IPMI® 2020 Conference



Ready to Connect Ready to Learn Ready to Build Relationships

more than ever:
connecting makes a world of difference

Dear IPMI Members,

Your safety and wellbeing during the COVID-19 pandemic remains IPMI's primary concern. We trust you are staying safe and doing as well as can be expected during this most difficult period. At the same time, we remain optimistic and are hopeful that the virus will subside and that economic activities will resume as appropriate.

As you know, IPMI postponed its June dates for our 44th Conference at Green Valley Ranch in Las Vegas, but we have rescheduled it for November 14-17. We realize this change could affect many of you and that you may have questions about the change in conference dates and the registration process.

IPMI ANNUAL CONFERENCE FAQ'S

- Q: Will the Conference format be the same in November?
- A: We plan to hold a full annual conference, beginning with an opening reception on Saturday, November 14 and continuing through our Student Award Banquet on Tuesday, November 17. A full array of receptions, seminars, and activities are planned.
- Q: I already registered for the June conference and plan to attend in November, do I have to register again?
- A. There is no need to register again.
- Q: Will the registration fees in November be the same as June?
- A: The registration fees are unchanged.

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IPMI® 2020 Conference

Conference 2020, continued from page 6

- Q: What if I have already registered but unable to attend the November conference?
- A: We will refund your registration without any penalty. Please call 850-476-1156 or email mail@ipmi.org for your request.
- Q: I already made a reservation at the Green Valley Ranch for June. What happens now?
- A: We have been told that the June reservations will automatically be cancelled, and your deposit refunded.
- Q: Do I need to make a new reservation for the November conference?
- A: Yes, it is important to make a new reservation using a new passkey link to be published on our website or by calling the Green Valley Ranch at 866-782-9187 and mentioning the IPMI Conference. Note the cutoff date for room guarantee is October 21.
- Q: I am a booth vendor and have paid for a booth in the Exhibit Hall. Is there anything I need to do for November?
- A: No, you are all set. The Exhibit Hall is still an integral part of our conference.
- Q: I am a sponsor of an event. Will my event be held as scheduled?
- A. All events are still scheduled for the November conference as they were in June.
- Q: I am a presenter. Have there been any changes to the program?
- A. The Technical Program in November will remain the same as June. But, if for some reason you cannot attend the conference in November, please let us know as soon as possible so we can adjust and finalize the program.
- Q: What if I have not registered yet?
- A: Registration information can be found at Events Calendar on our website. Discounted early registration is available now. We encourage to register at your earliest convenience so that we can plan for the numbers with the hotel as well as our planned events.

We understand the difficult times all our members our experiencing. We look forward to the day when we can all congregate and reconnect.

more than ever connecting makes the world of difference

For further information, please call Sandra Arrants at (850) 476-1156 or mail@ipmi.org

Registration Now Open! EARLY REGISTRATION CLOSES SEPTEMBER 14! https://www.ipfnlorg/events/event_list.asp Sponsorships Available Contact: Sandra Arrants, International Precious Metals Institute 850-476-1156, or email mail@ipmi.org

IPMI® 2020 Conference

Conference Preliminary Program

Saturday, November 14

7am Golf

5-6pm Student Meet and Greet

6-8pm Welcome Reception Sponsored by Johnson Matthey

8-10pm IPMI Dessert Reception

Sunday, November 15

8am-4pm Registration

8am-4pm Delegate Lounge Open 7:30am Speakers Breakfast

8:30-11:30am Session A - Legislative and Regulatory Affairs

8am-4pm Exhibit Hall Open

9:30-11am Registered Spouse Brunch

11:30am-1:30pm Members Meeting and Luncheon Sponsored by BASF

1:30-330pm Session B - World of Precious Metal Finance

2:30-5:00pm Registered Spouse Event
4-5pm Young Professionals
5-6pm Premier Members Social
6-8pm Tanaka Metalor Reception

8-10pm Loomis After Party

Monday, November 16

8am-lpm Registration

8am-1pm Delegate Lounge Open 7:30am Speakers Breakfast

7:30am Chapter and Committee Chairs Meeting

8am-4pm Exhibit Hall Open

8:30am-12:30pm Session C - Mining and Sampling

8:30am-12:30pm Session D - World of Precious Metal Jewelry

1-3pm SAC / PRC Meeting 1-3pm Session E - New Horizons

3-5pm Afternoon Party Sponsored by Gannon & Scott 4:30pm-5:30pm Ladies Happy Hour Sponsored by Bureau Veritas

6-8pm Sabin Metal Reception

8-10pm Entertainment

Tuesday, November 17

8am-noon Registration

8am-noon Delegate Lounge Open

all day Office

7:30am Speakers Breakfast

7:30am Marketing Committee Meeting

8am-Noon Exhibit Hall Open

8:30-12:30pm Session F - AML, Corporate Governance and Repsonsible Sourcing

8:30-12:30pm Session G - Assaying and Recovery of Precious Metals

1:30-3:30pm Student Research Presentations

6-7pm Presidents Reception co-Sponsored by United Catalyst Corporation

7-9pm Awards Banquet 9-10pm Closing Reception We deliver a full range of analytical services to our clients, in addition to providing independent inspection and technical expertise.

The Alfred H Knight North American laboratory is ISO17025 accredited and specialises in analysing precious and platinum group metals in a broad range of commodities.



GLOBAL METALS & MINERALS SPECIALISTS

In addition to our experienced chemists and technicians, our operations have dedicated teams of knowledgeable support staff committed to assisting our clients in all aspects of precious and platinum group metals inspection and analysis.

AHK North America offers independent inspection, weighing and sampling services to the precious and platinum group metals industry. Our locally based, experienced inspectors cover all major precious metal refineries, producers and re-claimers in the US and Canada.



For more information:



www.ahkgroup.com/NorthAmerica



ws.enquiries@ahkgroup.com



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Precious Metals Market News

Goldman hikes 12-month gold price forecast to \$2,000/oz - Reuters

Goldman Sachs raised its gold price forecast on Friday as it expects a rally in bullion to continue due to currency debasement fears and economic uncertainty caused by the coronavirus crisis. The bank raised its three, six and 12-month gold price estimates to \$1,800, \$1,900 and \$2,000 per ounce from \$1,600, \$1,650 and 1,800 per ounce, respectively.

World's ultra-wealthy go for gold amid stimulus bonanza

As stock markets roar back from the coronavirus-led rout, advisers to the world's wealthy are urging them to hold more gold, questioning the strength of the rally and the long-term impact of global central banks' cash splurge. Now some are channeling up to 10% of their clients' portfolios into the yellow metal as the massive central bank stimulus reduces bond yields - making non-yielding gold more attractive - and raises the risk of inflation that would devalue other assets and currencies.

While gold prices have already risen 14% since the start of the year to \$1,730 an ounce, many private bankers bet that gold - a hedge for both inflation and deflation - has further to run.

World's ultra-wealthy go for gold amid stimulus bonanza

US Department of Energy to fund fuel-cell truck development

A new \$100 million hydrogen funding effort from the U.S. Department of Energy (DOE) includes plans for building an industry-ready heavy-duty fuel-cell truck. "We will set a five-year goal to prove our ability to have a fully competitive heavy-duty fuel-cell truck that can meet the demands of the durability, cost and performance

requirements of the trucking industry," the DOE said.

The DOE stated that costly hydrogen infrastructure challenges are a barrier to fuel cell adoption and that DOE aims to "diversify the hydrogen supply by lowering the cost of hydrogen production from electrolysis."

Amplats targets operating at 75% to 80% capacity by year-end Amplats had started up 20% of its production profile after the Level 5 lockdown was eased to Level 4 in May, with good commodity prices and a strong balance sheet having helped the company to still pay salaries during the standstill and ramp-up periods. The ramp-up to 80% of the company's production capacity before the end of the year would allow the flexibility to comply with protocols and assumptions around infection rates.

China auto sales up 14.5% in May, recovering after pandemic

China's auto sales surged 14.5% in May, a second straight month of growth as the global industry's biggest market gradually recovers from the coronavirus pandemic.

The China Association of Automobile Manufacturers said Thursday that sales of passenger cars jumped 7% from a year earlier to 1.67 million, an improvement over April's 2.6% contraction. Growth in passenger vehicles was primarily driven by sales of SUVs and minivans, which jumped nearly 20% and 47% respectively from the same period the year before. Passenger vehicle sales tumbled 27.4% from a year earlier to 6.1 million in January-May, the CAAM said. Ford's China ventures have reported year-on-year sales growth for May.

Please see our IPMI.org website IPMI & Industry News for a complete listing of news articles relative to the world of precious metals.



Full Range Of Recycling And Metal Trading

Recycling catalytic converters for the recovery of Platinum, Palladium, Rhodium





Legislative Update

(All articles are current as of noon EST on 6/15/2020)

President Trump Signs PPP Reform Bill

On June 5th, President Trump signed into law a bill that eases restrictions on how small businesses can use Paycheck Protection Program (PPP) loans. The program, administered by the Small Business Administration, has become a staple for keeping businesses afloat through the COVID pandemic. However, certain restrictions were preventing some businesses, particularly those with higher operational costs, from benefitting at all. One of the main criticisms of the program was the '75/25' rule that mandated businesses to spend at least 75% of loans on retaining employees, with the remaining 25% to go towards operational costs. The new law lowers the rule to a 60/40 split.

Read more at https://www.cnbc.com/2020/06/04/senate-passes-ppp-reform-bill-addressing-concerns-of-small-businesses.html

Businesses Fear Liability Lawsuits

Since the beginning of May, over 1,000 lawsuits have been filed against businesses for liability associated with COVID. Many business groups fear that as businesses continue to reopen, a "wave" of new litigation may prevent their members from fully recovering. "Without temporary liability protections many companies face a daunting choice of either staying closed and risking bankruptcy or reopening and risking a business-crippling lawsuit," said Neil Bradley, Executive Vice President and Chief Policy Officer at the U.S. Chamber.

Many Senate Republicans agree and have expressed that if House Democrats want any chance for negotiations on a new economic relief bill, there will have to be agreement on liability protections, including retroactive immunity.

Read more about at https://thehill.com/business-a-lobbying/501974-covid-19-lawsuits-start-piling-up-for-businesses

U.S. Copyright Office Publishes Report on DMCA Safe Harbor

On May 21st, the U.S. Copyright Office published its findings on Section 512 of the Digital Millennium Copyright Act (DMCA) — a law passed in 1998 that protects online service providers (OSP) from liability for content posted by their users. Recently, industry groups have raised concerns over law's use by e-commerce platforms to skirt any responsibility for counterfeits and fake product reviews posted on their platforms.

The report acknowledged that while the law was enacted with the assumption that OSPs and intellectual property rightsholders would reasonably cooperate, the status quo reflects otherwise.

IPMI has been calling for broad reforms, including changes to Section 512, to protect U.S. consumers from harmful counterfeit products sold online.

Read more from https://www.lexology.com/library/detail.aspx?g=1c1940d5-8f05-423e-b245-9240b71a2fa5

Court Blocks USTR Attempt to Place Tariff on Bifacial Solar Panels

On May 27th, the U.S. Court of International Trade denied a request from the United States Trade Representative (USTR) that would allow the agency to tax bifacial solar panel imports. After President Trump imposed a 25% (now 20%) tariff on imported solar products in 2018, the USTR originally allowed an exemption for bifacial solar panels. However, the agency quickly reneged on the exemption which prompted an injunction by the USCIT.

Read more at https://www.eenews.net/stories/1063251569

Auto Catalyst Webinar

On June 4 IPMI held a webinar that attracted more than 800 viewers from around the world. Auto Catalyst Value chain: Covid-19 and Beyond was a 90 minute webinar featuring a panel that answered questions sent in and posed by viewers. Panelists included Oliver Krestin from Hensel-Recycling, Wilma Swarts from Metals Focus, Jonathan Butler from Mitsubishi, Craig Ostroff from BASF and mark Caffarey from Umicore.

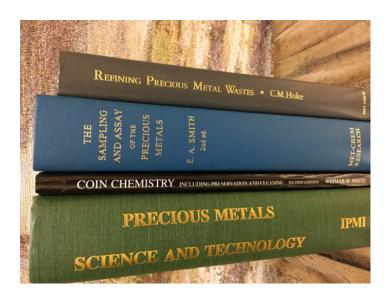
The webinar began with a presentation from Jonathan Butler who touched on topics: economic growth, unemployment, interest rates and investment of precious metals.

Moderated by Beck Berube of United Catalyst Corporation, the panelists field questions on these issues and more:

- How Covid-19 has affected the Automotive Industry
- Timing of New Emission Standards
- Collecting, Recycling and Primary Refining of Spent Autocatalyst
- Government Stimulus for Automotive Industry
- Pt for Pd design swap on gasoline ICE catalyst designs

Hello,

Did you know that IPMI has books for sale? Please check our inventory on our website: https://www.ipmi.org/store/default.aspx





INDUSTRY NEWS

The Mastermelt Group Acquires Conecsus Aerospace Introducing MASTERMELT-CONECSUS AERO





Mastermelt America, LLC has recently acquired Conecsus Aerospace located in Terrell, Texas.

The latest acquisition, **Conecsus Aerospace**, which will be known as **Mastermelt-Conecsus Aero**, specializes in the complete recycling of end of life turbine engines. Mastermelt-Conecsus Aero is a global leader in the alloys recycling industry. In addition to recycling these alloys, Mastermelt-Conecsus Aero recovers gold, platinum, palladium, and silver from end of life turbine engines. Mastermelt-Conecsus operates a 50,000 square foot aircraft engine dismantling and recycling facility on 7.5 acres.

Mastermelt-Conecsus Aero is now positioned to offer a complete closed-loop recycling for turbine engines. This acquisition will allow the company the ability to tear down complete turbine engines, issue certificates of destruction, process the alloys, and have them re-melted into new ingot for future production of turbine engine components. This extends the ability to provide end of life solutions for MROs, OEMs, leasing companies, and airlines.

Following the acquisition, Mark Degnan, President and CEO of Mastermelt America, added, "Conecsus has a worldwide brand recognition that merges well with Mastermelt... we can now offer complete end of life recycling services to the Aerospace, Marine and Power Generation Industries. This is a great opportunity for both companies."

Additionally, the acquisition adds to Mastermelt's Environmental Stewardship practices of Sustainable Materials Management (SMM). US EPA's Sustainable Materials Management (SMM) is a systemic approach to using and reusing materials more productively over their entire life cycles. It represents a change in how our society thinks about the use of natural resources and environmental protection.

Mastermelt America is part of an international consortium of precious metal refiners and super alloy processors known as the "Mastermelt Group". The Group has operations in the UK (London & Buxton), Germany (Frankfurt), and Singapore (Tuas). The conglomerate is dedicated to the processing and recycling of precious metals and high-temperature alloys.

Mastermelt was recently awarded the Green Star Partnership by the state of Tennessee and is under consideration for the TN Governor's Environmental Stewardship Award for Material Management. Mastermelt America is certified as an ISO 14001 Environmental Management and ISO 9001 Quality Management System (QMS) company.

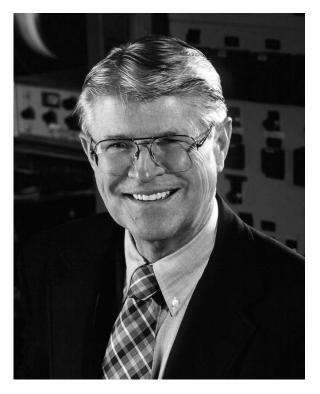


Co-Inventor of the Three-Way Catalytic Converter John J. Mooney

John J. Mooney held a BS degree in Chemistry from Seton Hall University, a MS degree in Chemical Engineering from Newark College of Engineering and a MBA in Marketing from Fairleigh Dickensen University.

Before founding Environmental and Energy Technology and policy Institute in August of 2002, he worked at Engelhard for 36 years in R&D, marketing and sales of the catalytic converters for automobiles, light and heavy-duty trucks (on and off-road), motorcycles, and small engines used for chainsaws and lawn and garden equipment. He was the former Technical Director of auto exhaust catalyst research and development.

He led the application team for purification of hydrogen utilizing hydrogen palladium diffusion membrane technology. Designed rugged automatic portable equipment, which by catalytic dissociation of ammonia provided a high hydrogen mixture to fill U.S. Air Force weather balloons in extreme environments. Designed the first VOC destruction catalyst system utilizing the Engelhard unitary ceramic catalyst body. Designed, with Carl Keith, the first successful diesel oxidation catalyst and applied it to a stationary diesel generation set at an Ohio Bell Telephone site. Designed and developed unique automatic process system for production of oil-drop alumina spherical supports. Converted several new R&D catalyst making designs to production processes. Worked with Ford Science Laboratory in their assessment of the unique Engelhard PTX unitary ceramic exhaust gas purifier (an oxidation catalyst) in several laboratory and fleet studies. Worked with 43 universities in the Clean Air Car Race of 1970 – this event showed to the U.S. Congress that the catalytic converter was practical. Sold the PTX exhaust gas purifier concept to the entire world automobile industry. Developed the PTX into a rugged trouble free system. Mr. Mooney and Carl Keith knew of the potential for a three-way catalyst and informed that auto companies of the potential. That opportunity came when Volvo invited them to work to develop the system. The invention of the 3-way catalyst ensued. Developed the first catalyst systems for wall-flow diesel particulate filters. Worked to commercialize catalytic combustion applied to industrial gas turbines without producing thermal NOx. Developed 3-way catalysts for alternate fuels. Developed catalyst systems for small 2-stroke engines used for motorcycles, scooters, and mopeds. Developed unique catalyst emission control systems for hand-held 2-stroke engines used for lawn and garden equipment and chainsaws. Developed catalyst systems for inboard and stern drive motor boats and other water pleasure craft. He was one of the team of four that propelled Engelhard back into fuel cell and fuel



processor development.

Mr. Mooney played a key starting role in global expansion of the Engelhard auto catalyst project by convincing authorities of the need for unleaded gasoline and strict exhaust emission standards and securing a customer base — these included Japan, Korea, Europe, Australia, Canada and Brazil and more recently China, India and Southeast Asian counties.

Another portion of his career achievements was the interface of emission control technology manufacturers with governmental regulatory agencies. Was member of the Manufacturers of Emission Control Association (MECA) Board of Directors from 1984 through 2003 and President from 1998 through 2002. MECA provides technical information on emission control technology to the United States Environmental Protection Agency, the California Air Resources Board, and State agencies. These important inputs provided sound technical support for more stringent gasoline mobile source emission control regulations, standards and low sulfur gasoline fuel. Thus, the demands for high technology precious metal catalysts continued for over two decades. In addition, during his tenure the U.S. EPA relied heavily on MECA to provide the technical basis for the upcoming

IN MEMORIAM

John J. Mooney, continued from page 14

2007 heavy-duty diesel engine on-road standards and future offroad heavy-duty engine standards as well as the technical basis for mandating ultra-low diesel fuel. The potential for precious metal catalysts created by these substantial future markets is huge.

He was also the Co-inventor of the three-way catalyst (TWC) which is now used by all gasoline fueled passenger cars and light duty vehicles in North America, Europe, Japan and other industrial countries.

His professional recognition includes but not limited to: American American Institute of Chemical Engineers Award for Innovation. Arthur Dehon Little Award of 1999, Recipient — Clean Air Award — Presented at the US Capital Building by the Manufacturers of Emission Controls Association, 2000

Laureate – Walter Ahlstrom Prize 2001 – Awarded by Finnish Academies of TechnologyReceived (along with Carl D. Keith) for invention and commercialization of the three-way catalytic converter. The Ahlstrom Prize is awarded in recognition of significant technological achievements which enable, or will enable, widely applicable industrial advances in the use of energy, in the utilization of raw materials, or in minimizing detrimental environmental impacts. The development may represent new breakthroughs in equipment design or improved processes. Primary consideration will be given to engineering achievements that have led to important benefits in

industry to the well-being of society. Laureate — National Medal of Technology 2002 (team award with Carl D. Keith). Presented by President George W. Bush at White House ceremony on November 6, 2003. For invention, commercialization of the three-way catalytic converter and world wide use on all automobiles. Recipient of the International Precious Metal Institute (IPMI) 2004 Distinguished Achievement Award for outstanding contributions in the field of precious metals applications.

His recent accomplishments include: Developed a catalytic converter for small 2-stroke engines. He convinced China and then India to 'switch' to 100% unleaded rather than 'phase-out' thereby quickly removing air borne lead from their atmosphere and providing the basis for mobile source emission control of automobiles, trucks and off-road vehicles and equipment for reduction of air pollution. This cost/effective approach is now taken by countries that adopt unleaded gasoline. He joined the Partnership for Clean Fuels and Vehicles created by the US EPA and the United Nations to bring clean fuels and vehicles to developing nations. Bring leaded gasoline to an end in the world is a first objective. Was assigned one committee chair in this effort.

He is survived by his wife of 49 years, Claire, and their five children.



President's Remarks, continued from page 1

us to visit Alan Kaye at Kaye Refining in Brooklyn. Jack Gannon sent our first loads of spent auto catalyst to Umicore. Jack Brill had our first load of metallic converters thrown into a leaching pit at Johnson Matthey, an unsuccessful experiment I might add. There we got to know Harry Lampart who was just out of college and starting his career. We watched as Martin Durney commissioned Robert Bullen-Smith and his young family to their assignment in China and these cool young guys entered the scene from Europe. One tall German young man with spikey hair at a very hip DEMET reception named Oliver Krestin and one not-so-tall German young man with sideburns like Elvis named Sascha Biehl. It took me until two years ago to realize Sascha sings and was a professional Elvis impersonator at the time. We sat poolside in Tucson with Bob and Pauline Henning and began a friendship that has spanned three decades and extends to our children. We had "dream sessions" with the late Ralf Duesmann. We attended with anticipation each September the CPM Group Platinum Seminar, the IPMI New York Platinum Dinner and the Metro chapter Fall Seminar.

Year after year, as your IPMI experience grows richer, so will you, your career, and your business. Today I could not do business without the precious metal expertise of so many of the IPMI members and

member companies. I depend on the analysis of traders and consultants like Jon Butler and Joseph Brooks of Mitsubishi International, the JM Metals Team and the JM Morning Update, Philip Newman and the team at Metals Focus, Stephen Forrest and the SFA Oxford team, Matt Watson, and more.

The absolute greatest IPMI experience I have had to date is serving with the following rock stars of this industry, the IPMI staff, Larry Drummond, Sandra Arrants, and Alan Kaye; IPMI General Counsel, Steve Gardner; the IPMI Officers — Miguel Perez-Santalla (Heraeus), Dr. Zac Henneman (BASF), and Dave Duel (Gannon & Scott); the IPMI Executive Committee - Oliver Krestin (Hensel Recycling), Scott Schwartz (FideliTrade), Simon Codrington (Huge Wood), Ian Holden (Sims Metal Management), Husvar Joshua (Cotecna USA), Mark Caffarey (Umicore), and Mike Troxell (MasterMelt); the entire IPMI and Foundation Boards; and all of the IPMI Chapters and Committees.

Together during this unprecedented time, we are working to bring more value to you through a new website experience and global webinars on issues that impact you and our industry. Thank you for the opportunity to serve you. We look forward to being together again soon so we can continue our tradition of connecting you to the world of precious metals.

IPMI[®] Calendar

2020	July 22	SECAM Webinar ● On-line
	Sep 17	8th Platinum Dinner • Grand Hyatt New York • New York, NY
	Nov 14-17	44th Annual Conference ● Green Valley Ranch ● Las Vegas, NV
2021	Feb 9-10	Public Affairs Legislative Seminar • Army Navy Club, Washington, DC
	Mar 2	Sampling & Analytical Committee Meeting • Hollywood Beach Marriott, Hollywood, FL
	Mar 3	Platinum Group Metal Refining Committee Meeting Hollywood Beach Marriott, Hollywood, FL
	Mar 4-5	Security & AML Committee Meeting • Hollywood Beach Marriott, Hollywood, FL
	Apr 26-28	PGM Autocat/Fuel Cell Seminar • Hyatt Grand Cypress, Orlando, FL
		To register attendance to IPMI events or add to your personal calendar, click on the following: https://www.ipmi.org/events/event_list.asp