



2025

Oct.

Newsletter

Asian Powder Metallurgy Association



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Asian Powder Metallurgy Industry Conference to be Held in Qingdao, China, in October 2025

Following the successful Asian Powder Metallurgy Annual Conference hosted by KPMI in Gyeongju, Korea from November 26 to 29, 2023, the 2025 Annual Conference of the Asian Powder Metallurgy Association will be held from October 19 to 22 in Qingdao, Shandong Province, China, hosted by the China Powder Metallurgy Alliance (CPMA).

Over the past two years, the global powder metallurgy industry has been significantly impacted by changes in the international landscape. Particularly on April 2 this year, U.S. President Trump announced the imposition of tariffs on imports from multiple countries, causing disruption to the global economic order. The Asian powder metallurgy sector has also faced major challenges, with producers and exporters in Asia experiencing severe market impacts.

Furthermore, the rise of electric and new energy vehicles has greatly affected the traditional fuel vehicle market. In Europe, due to war and rising costs, automobile manufacturers have seen a decline in orders, which has subsequently led to a reduction in orders for powder metallurgy factories. This represents the largest industry impact since World War II.

Looking ahead, the industry hopes that global economic and trade issues will ease by the end of 2025, allowing the powder metallurgy sector to restore stable production and actively develop new products. Efforts will be made to expand into AI and energy markets, reduce dependence on the automotive sector, and open new directions for industry development.

This conference will provide a valuable platform for the Asian powder metallurgy industry, where professionals from all sectors are expected to gather, encourage one another, and collaboratively address technological and market challenges, driving positive growth and development in the industry.

We sincerely thank everyone for their support and participation.



Asia Powder Metallurgy Association
President

C. L. Chu



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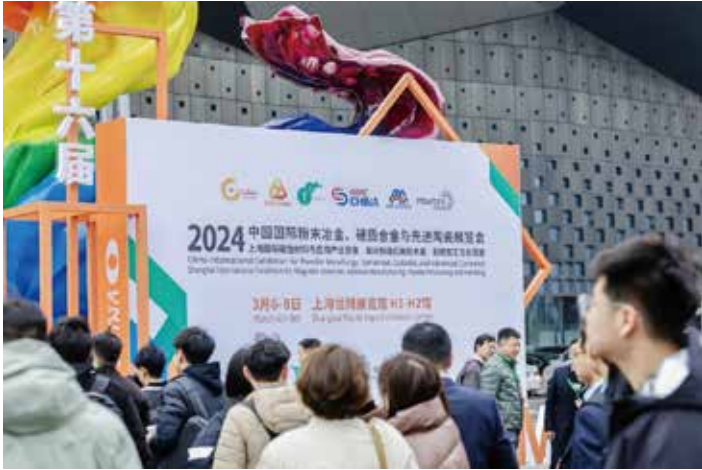


Shaoming Zhang
President



Wei Han
Secretary General

Main activities of CPMA in 2024



2024 China International Exhibition for Powder Metallurgy, Cemented Carbides and Advanced Ceramics



2024 Powder Metallurgy Technology and Business Forum



2024 Hot Isostatic Pressing Technology Innovation Forum



The 6th South China Summit Forum on Injection Molding, Additive Manufacturing Technology and Applications

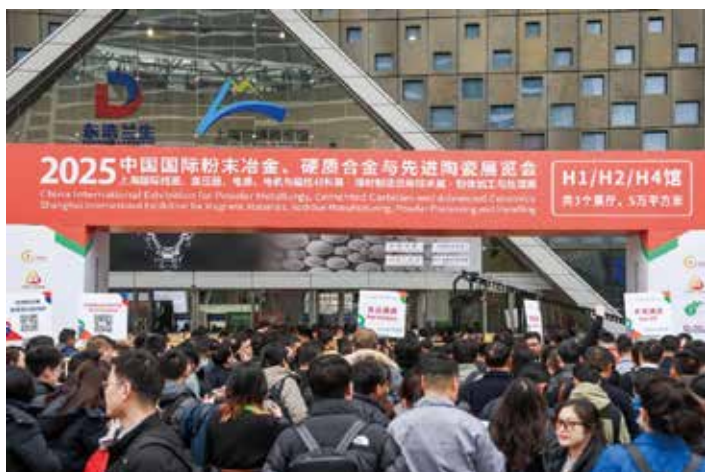


The 20th Powder Metallurgy Technology Exchange Conference of Five Provinces and One Municipality in East China



The First Forum on Enterprise Innovation Strategies and Policies

2025 activities



2025 China International Exhibition for Powder Metallurgy, Cemented Carbides and Advanced Ceramics



2025 Powder Metallurgy Technology and Business Forum



We would like to remind that the abstracts for **APMA 2025** can be submitted online from now until Thursday 15 May 2025 only. Please submit one or more abstracts by the deadline.

The 7th International Conference on Powder Metallurgy in Asia (APMA 2025)

Will take place in Qingdao, China, 19-22 October 2025. The conference will provide a platform for leading experts, researchers, and industry professionals in the field of Powder Metallurgy to discuss the trends, exchange insights on pressing challenges, and share research findings as well as advanced technologies.

APMA 2025 aims to further strengthen the collaboration and friendship between China's powder metallurgy community and its counterparts across Asia, fostering high-quality development in the Powder Metallurgy industry.

Full information including a more detailed topic breakdown can be found on our website www.apma2025.com with more details being released in due course. Please note the official language of **APMA 2025** is English.



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Secretary General

Director of National
Engineering Research
Center of Powder
Metallurgy, Central South
University

The Chinese Powder Metallurgy Society (CPMS), under the support of Powder Metallurgy Research Institute of Central South University, held a series of academic conferences (workshops) in 2024. In the meantime, CPMS helped to educate technical staff for industries, including more than 100 Engineering Master Degree and Ph.D in materials science, esp, in powder metallurgy. Further, under the platform of National Engineering Research Center of Powder Metallurgy, CPMS had broad service in technical support and intellectual property transfer to PM industries in China. The major academic activities in 2024 including:

1 The Forum on Advanced Powder Metallurgy Materials and Manufacturing Technology, as part of the 5th China New Materials Industry Development Conference, was successfully held on October 17–18, 2024, at the Media Center of the Chegu International Sports and Cultural Exchange Center, Wuhan Economic and Technological Development Zone, Hubei Province. The event was hosted by the Chinese Materials Research Society and organized by the State Key Laboratory of Powder Metallurgy and the National Engineering Research Center for Powder Metallurgy at Central South University. During the conference, experts from 14 enterprises and researchers from 7 universities delivered a total of 22 presentations. The reports covered a wide range of topics, including novel powder metallurgy processes, additive manufacturing technologies and equipment, high-temperature alloy preparation techniques, and the design and development of high-performance copper alloys. The experts and scholars shared the latest scientific research achievements, cutting-edge developments, and innovative ideas within the industry.



2 The 2024 (4th) International Conference on New Nonferrous Metal Materials hosted by the Chinese Nonferrous Metals Society was held in Zhengzhou, Henan Province, from November 22nd to 24th, 2024. The Powder Metallurgy Forum was organized by the State Key Laboratory of Powder Metallurgy and the National Engineering Research Center for Powder Metallurgy. With the goal of mutual advancement and collective improvement, the event aimed to enhance the status and role of new materials in national economic growth and social development. PM experts from institutes and universities shared more than 20 presentations on recent progress of PM technologies.



• Any planned promotional activities for 2025

In 2025, CPMS will continue its task in promotion of PM knowledge and service, and major activities include: 1) Held powder metallurgy forums in annual meetings of Chinese Materials Research Society and China Nonferrous Metals Society; 2) Educate M.D. and Ph.D students for PM industries; 3) technical service for PM industries in China and in the world.



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Tetsuya Sawayama
Executive Director
Japan Powder Metallurgy
Association (JPMA)

JPMA activities in 2024

WORLD PM2024 YOKOHAMA

The main event for 2024 is the international conference in Japan. WORLD PM2024 YOKOHAMA was held in October at Pacifico Yokohama, cohosted by the Japan Powder Metallurgy Association and the Japan Powder and Powder Metallurgy Association. This was the fourth time the conference was held in Japan in 12 years, but it was a success. Thanks to everyone's cooperation and the support of APMA, MPIF and EPMA.



JPMA Award Grand Prix

The JPMA Awards began in 1979, and the 2024 awards mark the 46th edition. Since 2003, the Grand Prix has been awarded to an especially outstanding product. This is the first time in five years that a Grand Prix winner has been selected. The winning product is "Development of Soft Magnetic Composite Cores with Double Pole Shoes to Enhance the Performance of Axial Flux Motors" by SUMITOMO ELECTRIC INDUSTRIES, LTD.



Innovation Project

In addition, JPMA and JSPM co-hosted a new project activity in 2024. The project aims to address the electrification challenges facing the powder metallurgy industry, innovate future powder metallurgy technologies, develop materials that are both low carbon and high strength, establish recycling technologies, and train the next generation of engineers. A specific activity plan is scheduled to be formulated in 2025.

Other Major Events

• 19th PM Information Exchange Meeting (Mar)

Lectures were given on the outlook for the global automotive industry in 2030, LCA sustainability progress in powder metallurgy, and the latest press technologies, along with an introduction of new member companies.



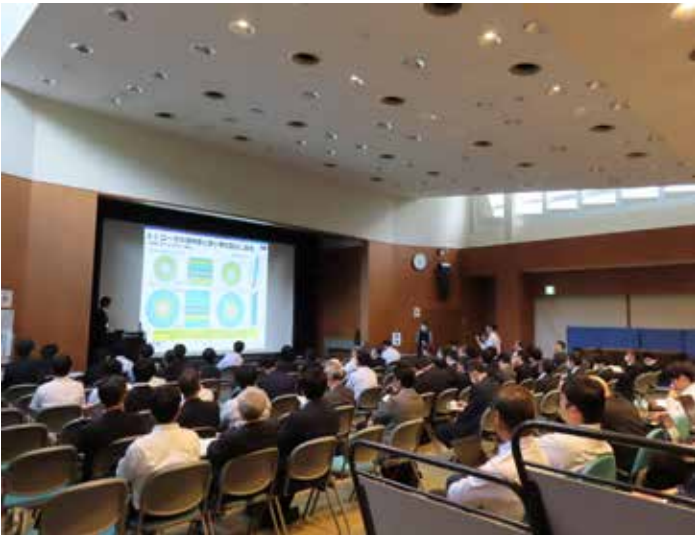
● **3rd MIM Seminar – Intermediate level (Mar)**

Held with the aim of raising the level of the entire industry through MIM awareness and education, and the presentation of improvement cases.



● **JPMA Special Session at the JSPM Spring Meeting (May)**

The winning companies made presentations with the aim of providing reference for powder metallurgy applications and future research.



● **2024 JPMA General Assembly (May)**



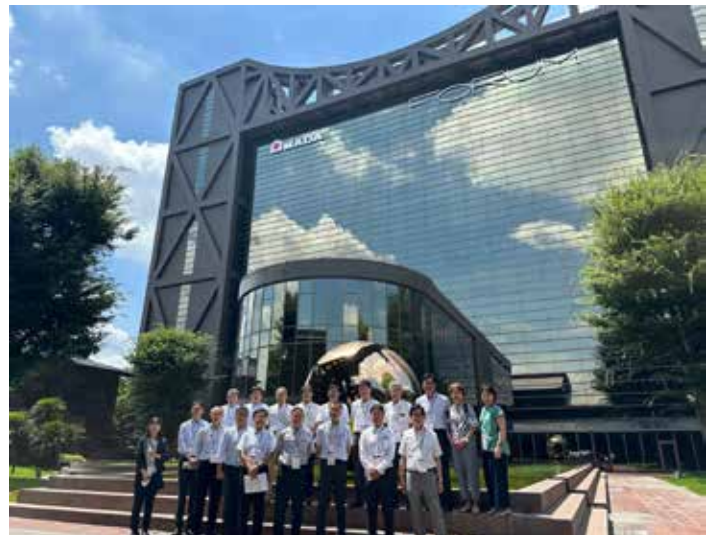
● **12th Human resources development seminar (Jul)**

Lectures and group exercises were held on the theme of “waste elimination and improvement.”



● **Business Committee Factory Tour (Aug)**

Hold a training tour for the business committee members every year. This year we visited “AMADA GLOBAL INNOVATION CENTER”.



JPMA activities in 2025

While continuing our existing activities, we will further develop the innovative project and move it into a stage of concrete action. In addition, as we will celebrate our 70th anniversary in 2026, we will begin preparations toward that milestone, including holding a commemorative ceremony in January 2026.



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Yukiko Ozaki
President
Special Appointed Professor,
Osaka University/Lecturer,
Kyushu University



Yoko Inoue
Executive Director
Secretary General

JSPM Activity of 2024

● WORLD PM2024 (2024 Powder Metallurgy World Congress & Exhibition)

From October 13 to 17, 2024, JSPM co-hosted WORLD PM2024 in cooperation with JPMA. We would like to take this opportunity to once again express our sincere appreciation to all APMA members for their generous support.

A total of about 2,400 participants attended the event, including 768 congress participants from 27 countries, 27 accompanying persons, 655 exhibition guides, and approximately 900 exhibition visitors.

JSPM was primarily responsible for the Technical Program Committee.

The congress, held under the slogan “Make a Better World with Powder Metallurgy,” featured three plenary talks and eight technical categories, highlighting initiatives toward the SDGs in areas such as the environment and energy.

In total, 322 presentations were delivered, comprising 3 plenary talks, 11 keynote lectures, 22 specially invited talks, 225 oral presentations, and 61 poster presentations.

On October 14, three plenary talks were presented following the opening ceremony. Keynote lectures covered topics of critical importance to the future of PM technology, including recycling (Prof. Shen, University of New South Wales, Australia), space development (Prof. Sato, ISAS/JAXA), and hydrogen utilization (Y. Sano, Iwatani Corporation). These lectures provided the latest insights and technologies, inspiring future research.

Oral sessions began on the afternoon of the 14th in six parallel rooms, while poster sessions were held on both the 15th and 16th. Initially, over 430 papers had been accepted, but unfortunately, more than 110 were withdrawn for various reasons.

Two awards were presented: the Best Presentation Award and the Best Poster Award. Ten oral presentation awardees and nine poster awardees received certificates.

After the congress, the proceedings were made available on the WORLD PM2024 website and in the JJSPM Supplement on J-STAGE (https://www.jstage.jst.go.jp/browse/jjspm/72/Supplement/_contents/-char/ja).



WORLD PM2024 Plenary Talk

● Annual Meeting

The 2024 Spring Meeting was held at the Suzukake Hall of Institute of Science Tokyo. It featured 153 oral presentations across eight special sessions and three general sessions, attracting about 370 participants. The most well-attended session, “Research Advances in Sintering Technology and Sintering Mechanisms of Powders” (27 presentations), fostered discussions on emerging sintering methods such as powder-based additive manufacturing, alongside an overview of the current and future directions of sintering technology, covering conventional solid-state sintering, liquid-phase sintering, and pressure sintering. Both experimental and theoretical studies were presented on the sintering behavior of various materials, microstructure formation, and the resulting properties.

The Autumn Meeting took place at Toki Messe, Niigata Convention Center, from October 19 to 21.

It also featured 153 oral presentations across five special sessions and

four general sessions. Although the number of presentations matched that of the Spring Meeting, attendance was slightly lower—less than 300 participants—possibly due to the proximity of WORLD PM2024. Each session was marked by active and lively discussions.



WORLD PM2024 Oral Session

● Power Metallurgy Seminar

As in 2023, the 2024 Powder Metallurgy Seminar comprised three parts: Introduction, Fundamentals, and Advanced.

The Introduction course was held online four times at two-week intervals from June to July.

The Fundamentals and Advanced courses were conducted in early December in a hybrid format, combining online and in-person lectures. These seminars enable participants to gain a comprehensive understanding of powder metallurgy, from basic principles to advanced knowledge of the latest technologies and materials.



The Session Room at the Spring Meeting

● Journal of the Japan Society of Power and Powder Metallurgy (JJSPM)

The JJSPM Online Journal will be published as open access on the J-STAGE website under the CC BY-NC-ND 0.4 license. Once accepted, papers will be published online as advanced publications. We hope to continue publishing excellent papers promptly. We welcome submissions from both members and non-members.



The Meeting Party of the Autumn Meeting

● The new activity schedule for 2025

JSPM will continue with the above Annual Meeting and Powder Metallurgy Seminar events as in the previous year. The 2025 Autumn Meeting will be held in Kyushu university in late October. The Introduction Seminar has already been held, while the Fundamentals and Advanced seminars are scheduled for early December. In addition, a new seminar on additive manufacturing is planned for late December.

1. 粉末冶金技術とは？ “ワッキー作り” との類似性

材料 ・粉末
・バインダー (金属不溶物) ・グラニュー糖
・塩、バニラエッセンス 少々

作り方

1. ボールにパウダーを入れ、混ぜて器でよく練り、グラニュー糖、塩を一度に加え、よく混ぜる。
2. ワッキー型を生地押し当てて型を作る。
3. 天板にのせ、180℃のオーブンで焼く。
4. 焼きた目のワッキー！ 供養！

6 2024年10月10日 九州大学 工学部 粉末冶金学 教授 藤田 浩二

Oline Powder Metallurgy Seminar



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Byungkon Park

President
President of KPMA.
President of Daekwang Sinter
Metal Co., Ltd.

I am the President of DKS which is producing powder metal parts for 28 years in Daegu-city in Korea. I have been serving as president of KPMA since April 2025. Great change is anticipated in PM industries in Korea and every participators overcome and prosper continuously. I hope to meet everyone in APMA 2030 in Korea.

KPMA was gathered for the first time in 2000 for supporting of 2006 World PM Congress and have remained,currently having 30 member firms including PM manufacturing ,Powder supplier,Equipment company.

Looking into who are the members, PM sector include Korea Sintered Metal,Halla Stackpole,Sinteron,Korea Powder Metallurgy plus 13 more members that cover up more than 95% of entire PM Market share. Powder production companies are with Chang Sung Corp,PoongSan Holdings,Hoganas Korea+Powder sales representatives followed by Metek(QMP),Woolim(Kobe steel)etc. Equipment company include Dae Hwa Press,Jung Wha Press,Korea Tamakawa. + Equipment sales office Naewai Commercial(Yoshisuga),Yangwoo(Fluidtherm).

KPMA gathering is annually scheduled to be held 4 times and one of them is Annual General Meeting. KPMA president and directors served 2 years and possibly renewed.

KPMA have been a center that help exchange market information,,introduce new technology and keep a mutual relationship among members,also help members to obtain a reliable statistical data about industry by continuing to collect the data such as Korean Iron powder shipments which provide the best barometer for the health of PM industry.

KPMA would also need to speak with a single voice when it comes to saying its demand to the States ministry.

It,however,is still an young organization and Technical activities has something to be better,though,it begun to have organized own technical session at the Joint technical symposium with KPMI and to take a part of Technical education program to be held twice a year.

Over the years,the industry has increasingly grown in parallel with the growth of the industry where it serves by welcoming and embracing new metal powder based technologies and solution.

In the future,KPMA need to work together to continue to encourage the members to participate in the development of new PM part and its technologies by promoting and sharing the industry’s success stories.



Annual General meeting was held on Jul. 12 2024 for World PM 25.



Winfred OH

General secretary
Managing Director of Yangwoo Corporation

My name is Winfred OH. I am doing a general secretary work at KPMA since July 2022. I am administering sales promotion company in behalf of foreign famous machine builders and material producer whose products are involved with powder metallurgy and chemical, automotive, steel mill industries that is requiring sintering furnace and powder compacting press and ferrous & non-ferrous powder and chemicals in their production lines from European countries, Australia, USA, India since 24 years in Korea.



Annual General meeting was held on Jan. 10 2025



General Meeting of 2025 was held on Apr. 18 and new President was inaugurated Mr. Byungkon Park.



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Jin-chun Kim

President
University of Ulsan, Professor

Korean Powder Metallurgy & Materials Institute (KPMI) is a professional academic society consisted of over 2,700 specialists in universities, research institutes and companies on powder metallurgy technology leading the key and future advanced industries. We are preparing to host upcoming international conferences, including ISIMP 2025 in Jeju, Korea, ISNNM 2026 in Dresden, Germany, HIP 2028 in Pusan, Korea, and WPM 2030 in Daejeon, Korea.

Korean Powder Metallurgy & Materials Institute Spring Conference

Period : March 28~29, 2024
Venue : SONGDO CONVENNSIA, Incheon, Korea



Korean Powder Metallurgy & Materials Institute (KPMI) is a professional academic society consisted of over 2,700 specialists in universities, research institutes and companies on powder metallurgy technology leading the key and future advanced industries. KPMI contributes to the industrial revigoration, the capability improvement and the global specialist cultivation in PM industries, with the activities of R&D, technical information exchange between academics and industries, and international cooperative network, since 1993.

18th International Symposium on Novel and Nano Materials (ISNNM 2024)

Period : June 30 ~ July 5, 2024
Venue : TU Wien, Vienna, Austria

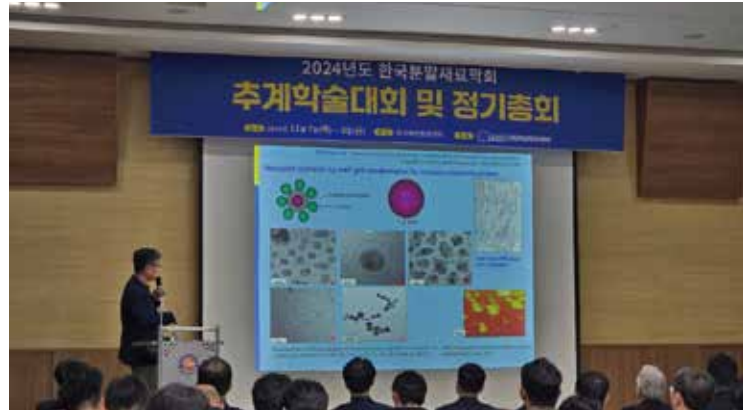




Yeon Ho Kim

Manager

KPMI contributes to the industrial revigoration, the capability improvement and the global specialist cultivation in PM industries, with the activities of R&D, technical information exchange between academics and industries, and international cooperative network, since 1993.



Powder Metallurgy Technician's School

Period : July 30~31, 2024

Venue : Korea Institute of Materials Science, Changwon, Korea



Korean Powder Metallurgy & Materials Institute Fall Conference

Period : November 7 ~ 8, 2024

Venue : Kimdajeung Convention Center, Gwangju, Korea





Aniket Gore
President



K.S. Samant
Director



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PMAI General Secretary Report FY 2024-25

Dear Members of PMAI,

It is a pleasure and honor for me to submit a report on the activities of our esteemed association, Powder Metallurgy Association of India, PMAI.

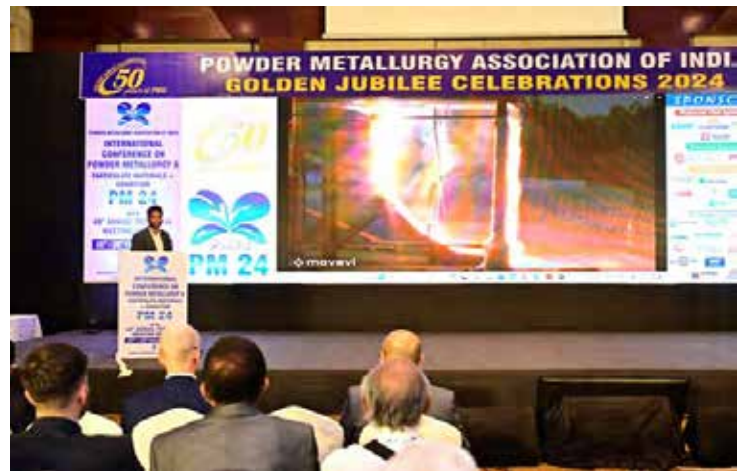
You all will be pleased to know that during the last couple of years PMAI has forwarded its agenda of promotion, encouragement and development of powder metallurgy and particulate materials. First time ever highest number of delegates from PMAI visited to Japan for World PM Congress 2024. PMAI continues to conduct various activities throughout the year, A summary in this regard is as follows:

1. PM - 24 International Conference (25th to 28th February 2024)

The Powder Metallurgy Association of India (PMAI) had organized a Four-day International Conference on Powder Metallurgy and Particulate Materials + Exhibition 2024 (PMAI-PM24) along with golden jubilee celebration of PMAI on 25th - 28th February 2024 at Hotel Hyatt Residency, Pune, India.



Topics covered in the conference were Press & Sinter, Powder Production, Additive Manufacturing, Hard Metals, and Diamond Cutting Tools, Emerging Materials, Technical Ceramics and Composites, Surface Engineering, Battery Materials, Waste management and Simulation and Modeling. Prof. N B Dhokey asserted the fact that our conference wasn't just limited to industry professionals but also included academia and research centers, ensuring a holistic exchange of knowledge and ideas between industry, academia and R&D Institutions.



The event featured five plenary lectures, seven industrial talks, three memorial lectures, 15 invited talks, and over 110 contributory papers. The conference was supported by 32 sponsors and Overall 250+ peoples participated in our conference.



Grand cultural Making music together “Symphony of 50 years” at PM 24

On all 3 evenings of the Conference, we had Commemorative Dinners. One of the Unique highlights during the Social Event, was the Invited Event “Symphony of 50 years”, an event where participants created Music Together using Drums as well as other minor instruments. In a session that lasted 40 minutes, great synchronization was achieved by the 250 participants, who created very memorable beats together.



Memorial lectures:

As a tradition, every year during the conference, PMAI hosts memorial lectures delivered by prominent persons in the PM and related fields to commemorate R. V. Tamhankar, P.R. Roy and S.L. N. Acharyulu, who were members and eminent leaders in the field of Powder Metallurgy. In PM-24, these memorial lectures were delivered by:

- Tamhankar Memorial Lecture: “Coatings for industrial components for corrosion, wear resistance and functional applications”, Dr. Suman Kumari Mishra, CSIR- CGCRI, India
- P.R. Roy Memorial Lecture: "Energy Scenario in the Country and Changing Role of Nuclear Energy", Dr. Raghvendra Tewari, BARC Mumbai, India
- S L N Acharyulu Memorial Lecture : “Translational research on Biomaterials and Implants in India: Current Status and Future Scope, Dr. Bikramjit Basu, IISC Bangalore, India

2. PMAI - Malvern Panalytical Two-day Workshop on Particle Size and Shape, Advance Manufacturing – 2nd and 3rd Aug’24

PMAI - Malvern Panalytical have conducted a workshop on 2 and 3 August 2024 to showcase the importance of particle size and shape in powder metallurgy and advanced manufacturing will be organized in collaboration with Pune University at their campus. Aim of the workshop was to provide the various relevant technologies prevalently used in quality control and Research & Development in characterization of the particle size and shape of powders – metal, ceramic, polymers, press & sinter and additive manufacturing. PMAI jointly with Malvern Panalytical brought in technologies like Laser Diffraction, Static / Dynamic Analytical Imaging which are the most used techniques for particle sizing and shape characterization. It was hands-on experience and application-oriented sessions to explain the real-world usage of these technologies in accordance with guidance from agencies like ASTM etc. There were more than 50 participants receive unique insights from Distinguished Speakers.





3. PMAI @ The World PM 2024, Yokohama

Team PMAI have enjoyed fruitful Engagement at The World PM 2024. During Presentations for Global Growth Forecasts, India's strong growth forecasts were highlighted repeatedly and well registered by the Global Audience.

Indian PM Professionals have registered their highest ever presence at World PM 2024, and this trend will strengthen further!



From Left to right : Deepak Nimbalkar of Pometon, Dipak Grover of Hoganas, Mr. Jayprakash of Pricol, Niranjan Narkhede of Speciality, Aniket Gore President PMAI, KS Samant Director PMAI, Keyur Patel of PPPatel, Akshay Patil General Secretary PMAI, Vattur Sundaram Maheswaran of Hoganas Sweden

4. Engineering Tool Design for PM Components – 14th and 15th Jan'25

The course presents in-depth overview of compaction process and design of compaction tools. Course is suitable for both fresh and experienced tool designers and also for engineers/supervisors responsible for production processes, metallurgy function, marketing team members including their managers. The course is conducted by Mr. Sanjay Rastogi having 30+ years' experience in PM field.



The screenshot shows a Zoom meeting interface. On the left, a presentation slide is displayed with the title "Elasticity Balance by using Top Punch Pressure". The slide contains a diagram of a compaction die with three punches (UE1, UE2, UE3) and a top punch (UE4). Text on the slide explains that withdrawing the die under top punch pressure prevents full relief of lock parts with highest elasticity. It notes that the top punch pressure is high enough that the punch with the highest elasticity cannot lift the green compact from the other punches. The disadvantage of top punch pressure is that the radial pressure is high, leading to higher lock wear and springback. On the right, a grid of participant avatars is visible, including Sanjay Rastogi, Dinakaran, sudhakar sarma, Harishwar Kale, Raviraj Patil, PMAI Director, Swaroop, 5 others, and PMAI Gensec.

5. Geometrical Dimensioning and Tolerancing (GD & T) 22nd January 2025

Student Upskilling and Outreach is a Key Objective of PMAI. To execute this vision, we are fortunate to have domain experts, who volunteer with a generous, charitable mindset, and take joy in teaching. Our Governing Council Member, Mr. R. Sridhar who is a well recognised consultant for Powder Metallurgy and other industries, visited Department of Mechanical Engineering, Sinhgad College of Engineering, Pune on 22 January to train 50 students.

The Workshop was Titled "Innovation in Design and Manufacturing through Geometric Designing and Tolerances (GD&T)."

Mr. R. Sridhar having experience more than 33 years in the industry in various functions. He is renowned Powder Metallurgy Expert, will impart training on the Basics of GD & T helping young Indian Engineers to interpret, read, & write Engineering Drawings.

Post this course, Engineering Students will be equipped to communicate effectively with global Engineering Teams. Recruitment Teams will give due weightage to students who have taken such a Unique Basic Course.



PMAI Office Activities:

PMAI team has been responsible for the running of PMAI office and taking care of all communications, finance and publications throughout the year.

On behalf of the members of the Powder Metallurgy Association, The General Secretary would like to thank the sponsors, exhibitors and advertisers for promoting the activities of PMAI.

The General Secretary would like to put on record gratitude to the Governing council members in particular and the members of PMAI for supporting all the events and activities.

Akshay S. Patil
Honorary General Secretary



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Rujirat Rungruangkul

President

General Manager of
Thai Fine Sinter Co., Ltd.

I have the great opportunity to serve as
President of the ThaiPMA since January
2024.

I am honor to be a part of ThaiPMA
Association.

Also I am a Plant Manager of Thai Fine
Sinter Co.Ltd. (Fine Sinter Japan Group)
whose products are powder metallurgy
mainly in Automotive Industrial.

ThaiPMA is strive to collaborate with
academic to make this industry to be more
well-known in Thailand.

I hope that the powder metallurgy industry
will become more well-known both in
Thailand and worldwide as well.

THAILAND POWDER METALLURGY ASSOCIATION

The idea of establishing Thailand Powder Metallurgy Association (ThaiPMA) has been started in 2015 when the seven major companies in Powder Metallurgy industry had an opportunity to discuss about the future of PM industry with the research institute (MTEC) and university. With that start, all the parties had a consensus to collaborate together for the mutual benefits of the industry as a whole, as stated in the objectives of the association.

ThaiPMA has been approved by the government as the association in 2016.

Sponsor for 14th Thailand Metallurgy Conference 2023



Public PM School 2023



Onsite meeting to introduce the association





Boonyawat Teeraprawatekul

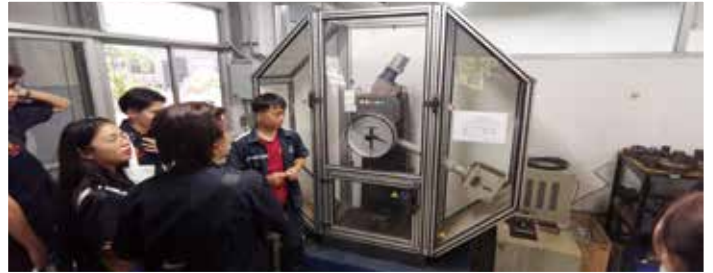
General secretary

Managing Director of Acme International (Thailand) Ltd.

My name is Boonyawat Teeraprawatekul, but you can call me Boon. Since January 2017, I have had the privilege of serving as the Secretary of the Powder Metallurgy Association of Thailand (ThaiPMA). I am also the Managing Director of Acme-Inter Group, a leading solution provider for powder metallurgy in Thailand.

It is an honor to represent ThaiPMA and be part of both the Asia Powder Metallurgy Association (APMA) and the WorldPM community. Together, we aim to advance the powder metallurgy industry in Thailand, making it the preferred choice for metalworking processes and contributing to a more sustainable future.

University PM school 2024



University PM School 2025



Non-Engineering PM School 2025





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The Taiwan Powder and Powder Metallurgy Association (TPMA)

founded in 1981, currently comprises 136 individual members and 73 group members. Its membership includes both local and international powder metallurgy (PM) manufacturers across the upstream and downstream supply chains. Approximately 35% of the membership consists of university professors, reflecting a strong commitment to supporting the local PM industry’s technical advancement and talent development.

In September 2025, Prof. J.K. Chen of National Taipei University of Technology was elected as the 23rd TPMA President, succeeding the 21st and 22nd President, Mr. Kevin Shaw. A new Board of Directors and Supervisors was also elected during the 2025 TPMA annual general convention, signaling a transition to a new generation of leadership expected to bring a fresh strategic outlook to the association.

In the post-pandemic era, Taiwan’s electronics sector has been positively influenced by the boom in the semiconductor and AI industries. However, the metal industries face significant challenges due to the complex global political and economic landscape. Rising costs—including personnel, raw materials, energy, tooling, and parallel tariffs—are driving the necessity for continuous investment in high-end, automated production equipment. This



Jhewn-Kuang Chen President

Dr. J.K.Chen was inaugurated as the 23rd president of Taiwan Powders and Powder Metallurgy Association (TPMA) in August, 2025. He also currently serves as President of the Taiwan Foundry Society (TFS). Dr. Chen earned his PhD in Materials Engineering Science from Virginia Polytechnic Institute and State University in 1995. His career began at McMaster University (Canada) and Corporate Research of Exxon Research and Engineering Company (USA). In 1998, he returned to Taiwan to join R&D Dept. of China Steel Corp. Prof. Chen transitioned to academia at National Taipei University of Technology in 2005. He was assigned Chair of the Dept. Materials and Mineral Resources Engineering from 2016 to 2021 and Dean of College of Engineering from 2021 to 2024. Prof. Chen has authored 77 journal papers, holds 10 patents, and has written 2 books. His research focuses on the process development for various metals, ceramics, and composites for local optoelectronics, machinery, transportation, defense, and aerospace industries. Additive manufacturing has been his major focus since the 2010s.

pressure, combined with a growing emphasis on sustainability, is strategically pushing the PM industry toward high-value, lightweight components and energy-efficient applications.

Taiwanese PM manufacturers are also actively adjusting their position in the Electric Vehicle (EV) supply chain. Concurrently, Metal Injection Molding (MIM) makers are providing strong support for the production of high-precision metal parts required by the consumer electronics and medical instruments sectors. To maintain growth, companies are leveraging their robust manufacturing base to expand their international market presence in the supply chains of North America, Europe, and Southeast Asia.



Opening speech presented by TPMA President Mr. Kevin Shaw in the 2024 TPMA annual general convention.



Speech presented by APMA President Mr. Chiu-Lung Chu in the 2024 TPMA annual general convention.



Ming-Wei Wu

Secretary General

Prof. Ming-Wei Wu is a professor in the Department of Materials and Mineral Resources Engineering, National Taipei University of Technology, Taiwan. He also serves as the secretary-general of Taiwan Powder Metallurgy Association (TPMA). Prof. Wu earned his PhD in Materials Science and Engineering at National Taiwan University in 2007. He was a visiting PhD student at the Institute of Materials Science and Technology, Technical University of Berlin, Germany, in 2006. Prof. Wu was previously an R&D engineer at Solar Applied Materials Technology Corporation in 2008 and 2009. He held an academic position at National Formosa University between 2010 and 2013 before joining National Taipei University of Technology in 2014. His areas of expertise include powder metallurgy, sintering theory, additive manufacturing, microstructural characterization, mechanical properties, and fracture analysis. His research fields focus on three topics: (1) sintering and the mechanical properties of various powder metallurgy steels, (2) anisotropies in the microstructure and mechanical properties of additive manufactured Fe-based and Ti-based alloys, and (3) lattice design and mechanical properties of additive manufactured metallic metamaterial. Prof. Wu has published more than 100 articles (journal, conference, and proceedings), including 9 papers in Materials Science and Engineering A, 7 papers in Metallurgical and Materials Transactions A, 3 papers in Materials and Design, 3 papers in Journal of the European Ceramic Society, 3 papers in Journal of Materials Research and Technology, 2 papers in Journal of Alloys and Compounds, 4 papers in Ceramics International, 2 papers in Materials Characterization, and 2 papers in Metals and Materials International. He was the first author or corresponding author on the previous 35 SCI articles. Furthermore, Prof. Wu was awarded the Marcus A. Grossmann Young Author Award by ASM International in 2016.



TPMA President Mr. Kevin Shaw presented the innovative award in the 2024 TPMA annual general convention.



TPMA Vice President professor J. K. Chen presented the excellent staff award in the 2024 TPMA annual general convention.



Dr. Lin presented best paper award in the 2024 TPMA annual general convention.



TPMA delegates and APMA President Mr. Chiu-Lung Chu attended World PM 2024 held in Yokohama, JAPAN

The TPMA's 2025 Annual General Meeting took place on August 22–23, 2025, at the Four Points by Sheraton Hotel, Linkou. With the 'Net-Zero Transition' as a central theme, the highlight was the keynote address by Dr. Jian-Guo Liu of the National Atomic Research Institute. His presentation, titled "Solid Oxide Battery Technology Development in the National Atomic Research Institute," provided members with valuable insights into the hydrogen energy-based technology, a key element for achieving 'Net-Zero.' The event also recognized excellence by presenting

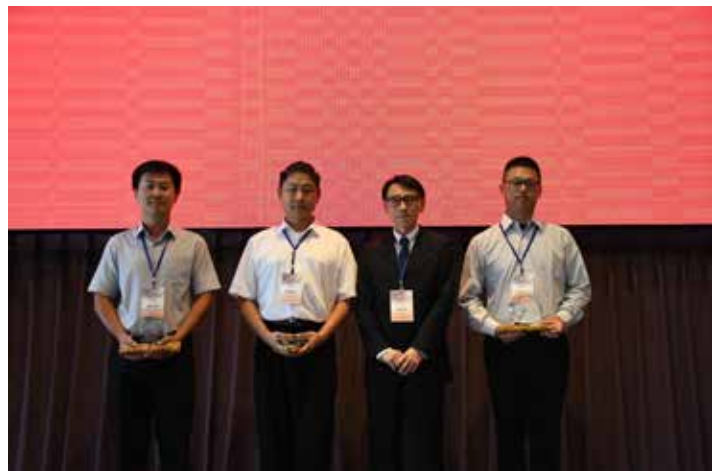
the Outstanding Employee Awards, Paper Awards, and Powder and Powder Metallurgy scholarships, and concluded with 17 insightful papers on topics including powder technology, PM, Additive Manufacturing, and MIM. Furthermore, the convention marked a transition in leadership: a new Board of Directors and Supervisors was elected, and President Kevin Shaw concluded his tenure, having served as the 21st and 22nd-term President. Prof. Jhewn-Kuang Chen and Dr. Huei-Long Lee took office as the 23rd President and Vice President of the TPMA in September, respectively.



Group photo of the 2025 TPMA annual general convention.



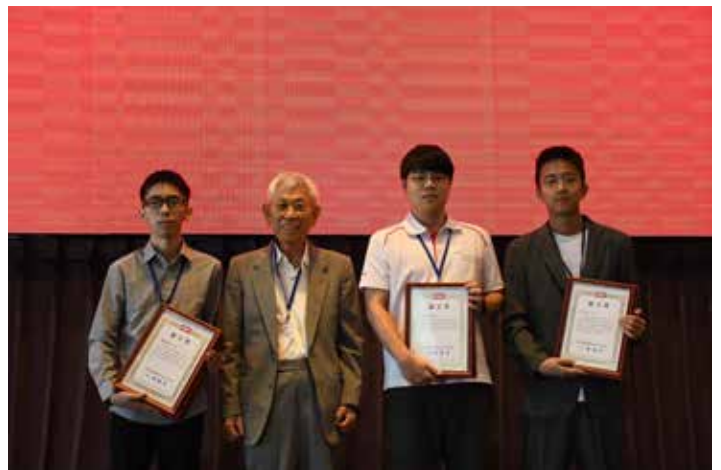
Speech presented by APMA President Mr. Chiu-Lung Chu in the 2025 TPMA annual general convention.



TPMA President Mr. Kevin Shaw presented the excellent staff award in the 2025 TPMA annual general convention.



TPMA President Mr. Kevin Shaw acknowledged the keynote speaker Dr. Liu.



Dr. Lin presented best paper award in the 2025 TPMA annual general convention.

PM Production in Asia

PM Production (Source JPMA, PMAI, KPMI, TPMA and CPMA)

(Metric Tons)

AREA		2022	2023	2024	24/23(%)
Japan	Iron-base	72,363	70,311	63,292	90.0
	Copper-base	2,068	2,165	1,986	91.7
	Total	74,431	72,476	65,278	90.1
China	Iron-base	163,923	174,961	200,391	114.5
	Copper-base	12,580	14,665	18,788	128.1
	Total	176,503	189,626	219,179	115.6
Korea	*Iron-base	64,820	70,012	65,834	94.0
	Copper-base	566	580	694	119.7
	Total	65,386	70,592	66,528	94.2
Taiwan	Iron-base	26,000	19,000	21,500	113.2
	Copper-base	1,000	1,000	1,020	102.0
	Total	27,000	20,000	22,520	112.6
India	Iron-base	45,000	49,000	56,000	114.3
	Copper-base	12,000	13,000	13,500	103.8
	Total	57,000	62,000	69,500	112.1
Malaysia	Iron-base	3,342	2,899	2,816	97.1
	Copper-base	151	174	213	122.4
	Total	3,493	3,073	3,029	98.6
Thailand	Iron-base	14,208	13,411	13,263	98.9
	Copper-base	41	40	41	102.5
	Total	14,249	13,451	13,304	98.9
Indonesia	Iron-base	5,825	5,584	5,299	94.9
	Copper-base	0	0	0	—
	Total	5,825	5,584	5,299	94.9
Other areas	Iron-base	1,077	922	1,127	122.2
	Copper-base	214	170	166	97.6
	Total	1,291	1,092	1,293	118.4
Total	Iron-base	396,558	406,100	429,522	105.8
	Copper-base	28,620	31,794	36,408	114.5
	Total	425,178	437,894	465,930	106.4

*Included "Others"

APMA'2025

THE 7TH INTERNATIONAL CONFERENCE ON POWDER METALLURGY IN ASIA

19-22 October 2025 Qingdao, China

Organized by
China Powder Metallurgy Alliance (CPMA)
Chinese Society for Metals (CSM)

Supported by
Asian Powder Metallurgy Association (APMA)

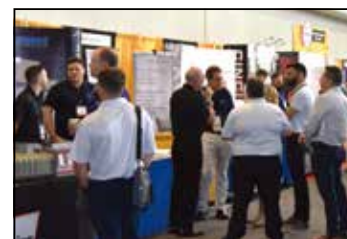
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