New Presidents Take Over P/M
Parts and Equipment Groups

Peter J. Seippel takes over the
helm of the Powder Metallurgy
Parts Association and Richard E.
Meier was elected president of the
Powder Metallurgy Equipment
Association.

Seippel is chairman and chief
executive officer of Advance Prod-
ucts Corporation, Beaver Dam, Wis-
consin and succeeds Robert C.
Burgess as president of PMPA. The
association comprises 51 leading
manufacturers of P/M parts.

Seippel has served on the Board
of Directors of PMPA and was
chairman of its Statistics and Long
Range Planning committees. He is
active in community affairs and is a
member of the Young Presidents' 
Organization.

Peter J. Seippel, newly elected PMPA pres-
ident.

Presmet Corp. Expands

Presmet Corporation, Worcester,
Massachusetts, a P/M parts maker
founded during the 1940s has been
approved for a $1 million industrial
revenue bond to purchase new
equipment for its 90,000 ft.² plant.
Presmet is buying a new furnace, a
200-ton compacting press and
secondary operations equipment.
The company has 350 employees.

Iron Powder Maker
Seeks Partner

Ervin Industries, Inc., Ann Arbor,
Michigan, is looking for a joint ven-
ture partner for its partially com-
pleted iron powder facility in
Butler, Pennsylvania, reports Wil-
liam Penrice, Ervin president.

In 1979 Ervin began building a
72,000 ft.² iron powder plant with an
estimated annual capacity of 30,000
tons. Production equipment such as
a 15-ton Whiting arc melting fur-
nace and a 48 inch wide Drerew
annealing furnace were purchased
but not yet installed. Penrice said
that a pilot plant for melting and
atomizing smaller qualifying ton-
nages of iron powder is operating.
Results from this facility show that
Ervin iron powder is equivalent to
standard atomizing molding grade
powder in critical properties, Pen-
rice stated.

Completion of the plant and
entry into the iron powder business
was postponed by Ervin because of
the economic climate in 1980 and a
need to utilize available cash else-
where. Ervin reports that the plant
can be completed and in operation
in eight months time and field trials
of product will be underway with
the pilot plant during that period.

Potential investors can call Frank
Emley or John Milne at Kinetic
Metals, Inc., P. O. Box 143, Ply-
mouth, Connecticut 06782; (203)
283-0351.

Hitachi Buys Unit to
Remove Powder Contaminants

Hitachi Metals in Japan has pur-
chased a Davy McKee powder
cleaner for use in research in P/M
alloy steels. The unit uses a travel-
ling magnetic field of a linear motor
to transport ferro-magnetic powder
in a cloud from a vibratory feeder
through a discharge outlet fitted
with a demagnetizing coil to restore
powder flow properties. Non-
magnetic contaminants, which can
cause inclusions in a high-density
P/M part, are rejected into a bin.

The unit can operate in the lab-
oratory processing 10 liter batches
of powder or is suitable for powder
production with a 10 kg/hr capac-
ity. Davy claims that the unit sub-
stantially eliminated inclusions
larger than 40-70 microns from P/M
high speed extruded steel and
reduced the total area of inclusion
by over 90%.

For information contact J. J.
Dunkley, Davy McKee (Sheffield)
Ltd., Prince of Wales Road, Darnall,
Sheffield, S9 4EX, England.

Tapco Selling P/M Equipment

John J. O'Meara, president of
Thermally Applied Products Co.,
reports that his company has started
to sell sintering furnaces, powder
blenders, compacting presses and
dissociators. O'Meara is chairman
of APMI's Connecticut section and
worked for C. I. Hayes and Leeds
and Northrup.

For information contact Tapco,
P. O. Box 333, River Meadow Drive,
Hope Valley, Rhode Island 02832;
(401) 539-7277.
Holmes further stated that iron powder producers are currently operating at 80-100% of capacity and nonferrous producers at 65-85%. The favorable business picture can be attributed to improvements in the general economy with the two most significant factors being auto production and housing starts. Holmes says customers are maintaining low inventories and he expects strong business conditions to continue through the end of 1984 and well into next year. He pointed out that all four of the major iron powder producers have either added additional capacity within the last year, have expansion programs underway or are in the final stages of reviewing an expansion investment.

Robert C. Burgess, president of the Powder Metallurgy Parts Association reported higher parts shipments, incoming orders, backlogs, employment and new tooling orders.

P/M parts fabricators say there is a lack of properly trained in-house personnel and customers are raising quality requirements.

William H. Trexler, Jr., president of the Powder Metallurgy Equipment Association said, “The business outlook is very good for the final quarter of 1984 and the beginning of ’85.”

Donald Bernens, president of the Refractory Metals Association, said the tungsten business should improve this year over a very poor 1983. He estimates tungsten consumption in the United States to exceed 19 million pounds as compared to 12 million pounds in 1983.

### MPF Programs Continue

MPF’s members celebrated the Federation’s 40th anniversary at the Homestead Hotel in Hot Springs, Virginia. Members reminisced about past achievements and were optimistic about programs to strengthen the P/M industry such as materials standards and the IDC market development activity. MPF president R. William Rosenquest applauded the members for their support of market development programs that are clearly benefiting the entire P/M industry. Kempston H. Roll, MPF executive director, reported on the very successful international P/M conference and said that MPF membership had reached 243 companies and APMI 2,280 members. He said the Institute was reviewing plans for new sections in Houston, Texas, Albany, New York and Tennessee. Herbert Tews and Ross Holmes, co-chairmen of the Industry Development Committee, reported that the highly successful marketing program had generated more than 8,000 sales inquiries during the first 18 months of the campaign. Tews said potential customers are contacting members of the Powder Metallurgy Parts Association and sending out quotation requests. It was reported that the Federation will continue its advertising program in 1985 along with regional design clinics, films, an exhibit at the Design Engineering Show, the P/M Part-of-the-Year Design Competition and publicity programs. Arlan Clayton, chairman of the IDC Educational Committee, reported on plans to give free technical literature and copies of the P/M design film to selected engineering schools. MPF members approved spending more than $200,000 on marketing and public relations in 1985.

Past presidents receive recognition plaques from R. W. Rosenquest. (left to right: Robert C. Burgess, PMPA; R. William Rosenquest; William H. Trexler, Jr., PMEA; Robert Van Valkenburg, APMI.)

### Metal Powder Press Safety Standard

A meeting of the Metal Powder Press Safety Standard Committee was held at MPF headquarters in July. Under the chairmanship of Herbert Goetz of Cincinnati Incorporated, the committee will review and revise MPF Standard 47, “Safety Requirements for the Construction, Safeguarding, Care & Use of P/M Presses.” Revisions will be submitted to the American National Standards Institute (ANSI) for adoption.

The committee plans to survey the industry to see what has been happening since publication of the last standard.
For more information contact Teresa Stillman at MPIF headquarters, (609) 452-7700.

Science of Sintering Seminar

The Powder Metallurgy Equipment Association in cooperation with the Technical Board of MPIF will sponsor a Science of Sintering seminar on November 27-29 at the Hershey Philadelphia Hotel.

The program will emphasize a better understanding of the sintering process from both scientific and practical viewpoints. The following topics will be discussed:

Why Atmosphere for P/M Sintering?
Dr. Leander F. Pease, III, PowderTech Associates Inc.

Overview of Generated Atmosphere Systems
Samuel C. Burkhalter, Lindberg, A Unit of General Signal

Overview of Nitrogen-Based Atmosphere Systems and Zoning Concepts
Dr. Harb S. Nayar, Airco Industrial Gases

CO and Non-CO Containing Atmospheres
Kevin McGinn, M. G. Industries
Joseph Stockunas, Air Products and Chemicals, Inc.

Absorption Systems as a Nitrogen Supply Alternative
Daniel M. Buck, Air Products and Chemicals, Inc.

Heat Treating Atmospheres for P/M Parts
Sean M. Adams, Airco Industrial Gases

Flow Reduction and Atmosphere Zoning
Gary W. Gaines, Union Carbide Corp., Linde Division

Effect of Atmosphere Composition on the Properties of Iron-Copper-Carbon Compacts
Walter A. Zanchuk, Air Products and Chemicals, Inc.

Furnace Troubleshooting
Dr. Mark Nowotarski, Union Carbide Corp., Linde Division

Fundamentals of the Sintering Process
Dr. Randall German, Rensselaer Polytechnic Institute

What's New in Sintering
Dr. Randall German, Rensselaer Polytechnic Institute

Choosing a Lubricant
Dr. Leander F. Pease, III, PowderTech Associates Inc.

Microstructure of Nonferrous P/M Compacts
Paul E. Matthews, United States Bronze Powders, Inc.

High Temperature Sintering
Louis W. Baum, Remington Arms Company, Inc.

Improved Magnetic Properties Through Sintering
Kenneth H. Moyer, Hoeganaes Corp.

Vacuum Sintering for Stainless Steel and High Alloys
Howard I. Sanderow, Stanadyne, Inc., Supermet div.

Conventional Sintering of Stainless Steel Compacts
Donald L. Dyke, SSI Technologies, Inc.

Carbon Control During Copper Infiltration
Cynthia Freeby, New Jersey Zinc Company

Solving Everyday Problems in Sintering
Athos Stosuy, Hoeganaes Corp.

Registration information has been sent to MPIF and APMI members.

For additional information contact Stacy Wszolek at (609) 452-7700.

High Performance P/M Short Course

MPIF will sponsor a P/M short course on High Density P/M Processes for High Performance Applications on February 11-13, 1985 in Newport Beach, California.

The program will include the latest information on high density P/M consolidation processes such as hot forming, extrusion, activated sintering, injection molding, rapid solidification processing, cold forming, powder rolling, HIPing, spray forming, shock wave consolidation and the Ceracon process. The course will include a tour of Metal Alloys, Inc. to view the Ceracon process.

The program is being organized by Dr. Peter C. Eloff of General Electric Company and Dr. Peter W. Lee of the Timken Company.

International Cobalt Conference

The Cobalt Development Institute will sponsor a World Cobalt Congress on September 30 and October 1-3, 1985 in Venice, Italy. The meeting will include technical papers, poster sessions and an exhibition.

For information contact the Cobalt Development Institute, 3 rue Ravenstein, B-1000 Brussels, Belgium; telex 220 77.

New P/M Textbook

MPIF has just released a new textbook, Powder Metallurgy Science, by Professor Randall M. German of RPI. The 280-page book provides an introductory review of P/M technology. Chapters cover powder characterization and production methods, powder handling, compaction, sintering, full density processing, compact characterization and applications. Each chapter has reference information and study questions. The book also contains a 10-page glossary. The list price is $35.00 but members can buy it for $31.50. Contact Stacy Wszolek of the MPIF publications department.

Drexel Sponsors Sintering Seminar

Drexel University's Department of Materials Engineering will sponsor a lecture by Dr. Randall M. German of RPI entitled "Enhanced Sintering Treatments - Activated & Liquid Phase Sintering", November 15, 1984. It is part of the school's Fall Seminar Series. Dr. German will speak at 3:30 p.m.

For information contact Prof. Alan Lawley, (215) 895-2326.
PEOPLE IN THE NEWS

Kenneth L. Millican, general manager of the Powder and Pigment division of ALCOA has moved to Tokyo as president of ALCOA Japan Limited. With ALCOA for 33 years, Millican was named general manager of the powder division in 1978. He was active in MPIF affairs and served on the Board of Directors of the Metal Powder Producers Association. He is succeeded by Joseph Muscari.

Dr. Teomen Ariman received the Henry Hausner Award from the Fine Particle Society. He served as president of the Fine Particle Society and is well known for his research on aerosol characteristics and behavior and earthquake engineering.

Keith R. Garrity, chairman and chief executive officer of H. K. Porter Company, Inc., Fansteel Inc., and Missouri Portland Cement Company, has been appointed to the Board of Directors of Metallurgical Industries, Inc.

Phillip E. Maclean has been elected chairman of the board and Phillip J. Clough, president, of Gorham International Inc.

Hans Hjort has been named engineering manager at Advance Products Corporation. He was formerly project engineer/P/M equipment for Cincinnati Incorporated.

New Fellows of the American Society for Metals were announced during ASM Metals Congress activities in Detroit. The honor recognizes members for distinguished contributions to the field of metals and materials. The following APMI members were installed: John S. Benjamin, product manager, Cabot Corporation, Stellite division, Larry A. Morris, director of market development, Falconbridge Limited, Richard P. Seelig, president, META-TECH Company.

DATES TO REMEMBER

1984
November 7-8
IPPMA/PMIA Clinic
Brunswick Corp. Technetics div.
DeLand, Florida
November 27-29
Sintering Seminar
Hershey Philadelphia Hotel
Philadelphia, Pennsylvania

1985
February 11
P/M Design Clinic
Sheraton-Palace Hotel
San Francisco, California
February 11-13
Short Course on High Density P/M Materials for High Performance Applications
Marriott Hotel
Newport Beach, California
February 27-March 2
PMEA Winter Business Meeting
Naples Beach Hotel & Golf Club
Naples, Florida
March 4-8
PMPA Winter Business Meeting
Camino Real
Cancun, Mexico
June 12-14
P/M Short Course
Rensselaer Polytechnic Institute
Troy, New York
July 14-17
1985 Annual P/M Conference and Exhibition
The Fairmont Hotel
San Francisco, California