Government Relations Program

(Contributors from January 1–December 31, 1998)

Individuals:
- Jon Aries★
- Will Askew, Jr.
- Romualdas L. Barauskas
- Williard R. Bell
- Manuel Ben, CEF
- William D. Bonivot★
- Myron & Charlene Browning★
- John W. Carlson
- Ralph Coxon
- Issidore Cross, CEF
- Gary Dekermenjian
- George Di Bari, PhD
- John D. Dietz
- Jack W. Dini★
- Seydou Diop
- Harold Elliott
- George E. Ellis, Jr.
- Stanley E. Farnham
- Thomas D. Ferrario
- Marvin & Jean Fine
- Frank A. Floystad
- Patricia J. Frisch
- Peter Gallerani, CEF
- Simon P. Gary, CEF
- Scott Goodsell
- Lester Gress
- Thomas J. Griffin
- Frederick J. Gumm
- Herman N. Hammer
- W. Joan Harrison
- John Haske
- Dr. Samuel Heiman★
- Joseph Holody
- Michael J. Horton, Sr., CEF
- Larry J. Jarres★
- Harsh T. Kachhi★
- Kay Kanazawa
- Edmund C. Knill★
- Stephen J. Kononiuk
- Harold Leever
- Michael Lehman
- Bruno Leonelli
- Daniel C. Leonhardt
- Jerry J. Leonhardt★
- Lyle B. Lipschutz
- Brian Manty
- Nicholas Martyak
- B.J. Mason
- Kathe & Jim Mayer (Mayer Associates)
- Richard K. Mayes, CEF
- A.J. Melchione★
- Louis Morin
- John K. Murphy
- A.I. & Olga Pomella
- William M. Onuska
- Bill Ormsby
- Kevin O’Rourke
- Oliva Ramoanovic
- Charles A. Remied
- Mark C. Reppa★
- Charles W. Reynolds★
- Jack A. Rubin
- Stephen F. Rudy
- Norman D. Saraceno
- Keith Sasaki
- Raymond Schmidt, Jr.
- Mort Schwartz
- Harry F. Sica
- Robert Sizelove
- Howard Smith
- Marilyn K. Sanicky
- Gerald D. Smith
- Rebecca Spearot, PhD, P.E.
- Dr. T.S. Spinosa★
- Bob Srinivasan
- Angel Sta Ana★
- Inna Strupinsky★
- Howard E. Studaker
- Neil Swanson
- Donald Thomson
- Alice M. Tilton
- Herbert M. Tilton, CEF
- Joseph M. Tilton
- Maureen Tilton
- Tam Van Tran★
- Ronald M. Vezzi
- James E. Voytko, CEF
- Craig Warner
- Daejoong Yoon

Companies:
- AAA Plating & Inspection, Inc.★
- ABQC Corporation
- ACM Galvanizing, Inc.
- Aero Metal Finishing, Inc.
- Aerocote Corporation
- Aldeo Company
- Alert Sales South, Inc.
- Alexandria Metal Finishers, Inc.
- AN-KOR Rack Co., Inc.
- Anoplate Corporation
- API Industries, Inc.
- Arlington Plating Co.
- Associated Plating Co.
- Astro Industries, Inc.
- Charlotte Plating, Inc.
- Chemart Company
- Chicago Plastic Systems
- ChromeTech of Wisconsin, Inc.
- Circle Finishing, Inc.
- Coating Systems, Inc.
- Columbia Chemical Corp.
- Commercial Plating Co., Inc.
- Continuous Coating Company
- Crown Plating, Inc.
- CSL, Inc.
- Cuevas Dennis Corp.
- DB Metal Finishing Corp.
- DCI Industries, Inc.
- Delta Chemicals & Equipment, Inc.
- Delta Faucet Co.
- Deveco Corporation
- Eagle Plating Service, Inc.
- Easton Plating & Metal Finishing, Inc.
- Electro Chemical Finishing
- Electrochemical Products, Inc.
- Electro Plating Company, Inc.
- Electro-Platers of York, Inc.
- Electroplating Consultants Int’l, Inc.
- Electrotek Corporation
- EMF Corporation
- Epic Plating Company
- Finishing & Plating Services
- General Magnaplate Corp.
- Great Lakes Metal Finishing, Inc.
- h.m. elliott, inc.
- Fred S. Henschel & Assoc., Inc.
- Hydrite Chemical Co.
- I.D.S.C., Inc.
- Ingersoll-Rand/Schlage Lock Division
- Italix Company, Inc.
- JPS Technologies, Inc.
- K&I Hard Chrome, Inc.
- Keeler Brass Company
- Kraft Chemical Co.★
- Krueger International, Inc.
- Lafferty-Baublitz, Inc. t/a Seiler-Hughes, Inc.
- Leadtek
- Leonhardt Plating Co.★
- Luster-On Products, Inc.
- Matrix Technologies
- McDowell Enterprises, Inc.
- Michigan Industrial Finishes Corp.
- Micro Plating, Inc.★
- Microfinish Co., Inc.
- Milwaukee Plating Co.
- Modern Plating Corp.
- Moen, Inc. (Jim Romine)
- National Manufacturing Co.

Note: Most recent contributors (through 12/31/98) are shown in boldface type. ★ = An additional donation has been made in this reporting period.

All member companies of the National Association of Metal Finishers and the Metal Finishing Suppliers Association contribute a portion of their dues to the joint government relations program.

AESP/NAMF/MFSA Legislative Affairs Office
2600 Virginia Ave., NW
Suite 408
Washington, DC 20037
Ph: 202/965-5190
FAX: 202/965-4037
Contributions/pledges are encouraged. Please complete the form below and send it, with your pledge or contribution, to: Government Relations Program, c/o AESF Headquarters, 12644 Research Pkwy., Orlando, FL 32826-3298.

PLEDGE

AESF Government Relations Fund

Pledged by:________________________________________
____________________________________________________
Amount_____________________________________________
AESF Branch________________________________________
Method of Payment: o Check enclosed
(Payable to AESF Government Relations Fund)
Charge to Credit Card:
o Master Card o Visa o American Express
Number: _______________________________Exp. Date: __________
Signature_________________________________________________
(Required for credit card)
Please invoice me/my company P.O. number (if necessary)
____________________________________________________________
This pledge is solely for the use of the AESF Government Relations Fund.
Send pledges to: AESF, 12644 Research Parkway, Orlando, FL 32826-3298

**About the Authors**

Masaru Seita* and Masaru Kusaka are employed in the R&D Department of LeaRonal Japan Inc., 296-4, Yoshino-cho, Ohmiya, Saitama, Japan. They are responsible for research and development of new products for printed circuit board manufacturing. Drs. Hidemi Nawafune and Shozo Mizumoto are professors in the Department of Applied Chemistry, Faculty of Science, Konan University, Kobe, Japan. Their research interests include electroplating, electroless plating and related fields.

* To whom correspondence should be addressed.

---

Continued from page 64

(11.9Ω/sq). The new direct metallization technology can be offered to manufacturers of Ni-Co film-coated polyimide substrate. This process will provide high reliability because no adhesive layer exists between the polyimide and the Ni-Co alloy deposits. Further development of this process can also extend its application beyond FPC, TAB and build-up technology.

**Editor's note:** Manuscript received, May 1998; revision received, August 1988.

**Acknowledgment**

The authors wish to thank Toray-Dupont Inc. for providing polyimide samples.

**References**