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# Appendixes

# Contractors and Workshop Participants

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## CONTRACTORS

**P. Beardmore**  
**C.F. Johnson**  
**G.G. Strosberg**  
**Ford Motor Co.**  
**Dearborn, MI**

John Busch  
 Frank Field  
 Materials Modeling Associates  
 Massachusetts Institute of  
 Technology  
 Cambridge, MA

Business Communications Co.  
 Norwalk, CT

Dale E. Chimenti  
 Thomas J. Moran  
 Joseph A. Moyzis  
 Air Force Materials Laboratory  
 Wright Patterson AFB, OH

J.D. Eveland  
 Cognos Associates  
 Palo Alto, CA

**Steven R. Izatt**  
**PA Consulting Group**  
**Hightstown, NJ**

**R. Nathan Katz**  
**Alfred L. Broz**  
**Army Materials Technology**  
**Laboratory**  
**Watertown, MA**

**D.B. Marshall**  
**Rockwell International Science**  
**Center**  
**Thousand Oaks, CA**

**J.J. Mecholsky**  
**The Pennsylvania State University**  
**State College, PA**

**Kenneth L. Reifsnider**  
**Virginia Polytechnic Institute and**  
**State University**  
**Blacksburg, VA**

**David W. Richerson**  
**Ceramatec**  
**Salt Lake City, UT**

**J.E. Ritter**  
**University of Massachusetts**  
**Amherst, MA**

**Elaine P. Rothman**  
**Massachusetts Institute of**  
**Technology**  
**Cambridge, MA**

**Julie M. Shoenung**  
**Joel P. Clark**  
**Massachusetts Institute of**  
**Technology**  
**Cambridge, MA**

**Trudy Solomon**  
**Solomon Associates**  
**Bethesda, MD**

**Reginald B. Stoops**  
**R.B. Stoops & Associates**  
**Newport, RI**

**Strategic Analysis, Inc.**  
**Reading, PA**

**Technology Management**  
**Associates**  
**Chevy Chase, MD**

**Louis Tornatzky**  
**Industrial Technology Institute**  
**Ann Arbor, MI**

**Carl Zweben**  
**General Electric Co.**  
**Philadelphia, PA**

## PROJECT WORKSHOPS (Listings of Participants Follow)

**Ceramics workshop Participants, Nov. 14-15, 1985**

**Composites Workshop Participants, Nov. 21-22, 1985**

**Future Applications of Ceramics Workshop Participants, Dec. 9, 1985**

**Future Applications of Composites Workshop Participants, Dec. 10, 1985**

**International Competitiveness Workshop Participants, Dec. 15-16, 1986**

**Government/University/Industry Collaborations Workshop Participants, Jan. 12, 1987**

## WORKSHOPS

### Ceramics Workshop Participants

Nov. 14-15, 1985

**Alfred Broz**  
Army Materials Technology  
Laboratory  
Watertown, MA

**Joel Clark**  
Massachusetts Institute of  
Technology  
Cambridge, MA

**Tom Henson**  
GTE Products  
Towanda, PA

**R. Nathan Katz**  
Army Materials Technology  
Laboratory  
Watertown, MA

**Jack Mecholsky**  
Pennsylvania State University  
State College, PA

**David Richerson**  
Ceramatec Inc.  
Salt Lake City, UT

**John Ritter**  
University of Massachusetts  
Amherst, MA

**Elaine Rothman**  
Massachusetts Institute of  
Technology  
Cambridge, MA

### Composites Workshop Participants

Nov. 21-22, 1985

**Joel Clark**  
Massachusetts Institute of  
Technology  
Cambridge, MA

**John DeVault**  
Hercules Aerospace Co.  
Salt Lake City, UT

**Thaddeus Helminiak**  
Wright-Patterson AFB  
Dayton, OH

**Joseph Moyzis**  
Wright-Patterson AFB  
Dayton, OH

**Kenneth Reifsnider**  
Virginia Polytechnic Institute  
Blacksburg, VA

**Reginald Stoops**  
R.B. Stoops & Assoc.  
Newport, RI

**Charles L. Tucker**  
University of Illinois  
Urbana, IL

**Carl Zweben**  
General Electric Co.  
Philadelphia, PA

### Future Applications of Ceramics Workshop Participants

Dec. 9, 1985

**Charles Berg**  
Northeastern University  
Boston, MA

**Bill Kuhn**  
Zesto-Therm  
Cincinnati, OH

**Albert Paladino**  
Advanced Technology Ventures  
Boston, MA

**Rustum Roy**  
Pennsylvania State University  
State College, PA

**Jim Wimmer**  
Garrett Turbine Engine Co.  
Phoenix, AZ

### Future Applications of Composites Workshop Participants

Dec. 10, 1985

**Charles Berg**  
Northeastern University  
Boston, MA

**Bob Hammer**  
Boeing Commercial Aircraft Co.  
Kirkland, WA

**D. William Lee**  
Arthur D. Little, Inc.  
Cambridge, MA

**Joe Lees**  
DuPont Co.  
Wilmington, DE

**Paul McMahan**  
Celanese Research Corp.  
Summit, NJ

**Darrell H. Reneker**  
National Bureau of Standards  
Gaithersburg, MD

**John Riggs**  
Celanese Research Corp.  
Summit, NJ

**Charles Segal**  
Omnia  
Raleigh, NC

**International Competitiveness Workshop Participants  
Dec. 15-16, 1986**

**Stanley Abkowitz**  
Dynamet Technologies, Inc.  
Burlington, MA

**David Allen**  
Allied Signal Corp.  
Morristown, NJ

**E. Reed Bell**  
Shell Chemical Co.  
Houston, TX

**James N. Burns**  
Hercules, Inc.  
Magna, UT

**David Cammerota**  
U.S. Department of Commerce  
Washington, DC

**John A. Coppola**  
Standard Oil Engineered  
Materials Co.  
Niagara Falls, NY

**Samuel J. Dastin**  
Grumman Aircraft Systems  
Bethpage, NY

**Joseph F. Dolowy**  
DWA Composite Specialities,  
Inc.  
Chatsworth, CA

**Scott Farrow**  
Carnegie Mellon  
Pittsburgh, PA

**R. Wayne Godwin**  
BASF Corp.  
Charlotte, NC

**A. Seth Greenwald**  
Mount Sinai Medical Center  
Cleveland, OH

**Michael T. Kelley**  
U. S. Department of Commerce  
Washington, DC

**Robert Manildi**  
Hexcel Corp.  
Dublin, CA

**James Manion**  
U.S. Department of Commerce  
Washington, DC

**Paul Pendorf**  
ICI Fiberite  
Orange, CA

**Randolph B. Robinson**  
Manager, Technical Engineering  
Beech Aircraft Corp.  
Wichita, KA

**Robert Russell**  
Norton Company  
Northboro, MA

**John Scanlon**  
U.S. Army Corps of Engineers  
Vicksburg, MS

**Moira Shea**  
U.S. Department of Commerce  
Washington, DC

**Nicholas Spencer**  
Ciba-Geigy Corp.  
Fountain-Valley, CA

**Dick J. Wilkins**  
University of Delaware  
Newark, DE

**David Wirth**  
Coors Ceramics Co.  
Golden, CO

## Government/University/Industry Collaborations Workshop Participants

Jan. 12, 1987

Michael G. Bolton  
Lehigh University  
Bethlehem, PA

Ed Cohen  
New Jersey Science and  
Technology Commission  
Trenton, NJ

Dan Dimancescu  
Technology and Strategies Group  
Cambridge, MA

Henry Etzkowitz  
Rensselaer Polytechnic Institute  
Troy, NY

Robert M. Fisher  
Lawrence Berkeley Laboratories  
Berkeley, CA

Sarah Shauf Friel  
Centocor, Inc.  
Malvern, PA

Robert E. Gee  
Midwest Technology  
Development Institute  
St. Paul, MN

Carmela Haklisch  
Rensselaer Polytechnic Institute  
Troy, NY

Steven Hsu  
National Bureau of Standards  
Gaithersburg, MD

Bernard H. Kear  
Rutgers University  
Piscataway, NJ

Ronald Latanision  
Massachusetts Institute of  
Technology  
Cambridge, MA

Samuel Thomas Picraux  
Sandia National Laboratory  
Albuquerque, NM

Dwight A. Sangrey  
Rensselaer Polytechnic Institute  
Troy, NY

Warren D. Siemens  
Martin-Marietta Energy Systems  
Oak Ridge, TN

Thomas Rhyné  
Microelectronics and Computer  
Technology Corp.  
Austin, TX

Amy L. Walton  
Jet Propulsion Laboratories  
Pasadena, CA

## OUTSIDE REVIEWERS

Stanley Abkowitz  
Dynamet Technologies, Inc.

Craig Ballinger  
Federal Highway Administration

Gregory B. Barthold  
Aluminum Co. of America

E. Reed Bell  
Shell Chemical Co.

Arden Bement  
TRW, Inc.

William Bennett  
AMOCO

William Broatch  
NARMCO Materials

Henry Brown  
Society for the Advancement of  
Materials and Process  
Engineering

Stephen D. Bryen  
U.S. Department of Defense

Harris Burte  
Air Force Materials Lab

Stan Channon  
Private Consultant

Ed Cohen  
New Jersey Science and  
Technology Commission

Dan Cook  
U.S. Department of Commerce

Harry Cook  
Chrysler Motors Corp.

Leslie G. Cooke  
Hysol-Grafil Inc.

Dominique Cotto  
Embassy of France

Anthony Cox  
Embassy of Great Britain

Sam Dastin  
Grumman Aircraft Systems

Dick Dauksys  
Hexcel Corp.

Vince Decain  
U.S. Department of Commerce

Raymond F. Decker  
University Science Partners, Inc.

Wim van Deelen  
Delegation of the Commission of  
European Communities

Gail DiSalvo  
Ciba-Geigy Corp.

Joe Dolowy  
DWA Composite Specialties, Inc.

Mike Dowell  
Union Carbide Corp.

Donald E. Ellison  
Donald Ellison & Associates, Inc.

Henry Etzkowitz  
Rensselaer Polytechnic Institute

Renee G. Ford  
MIT Press

David Forest  
Ferro Corp.

Kenneth Foster  
U.S. Department of Defense

Sarah Shauf Friel  
Centocor, Inc.

I. Freund  
U.S. Polymeric

Geoffrey Frohnsdorff  
National Bureau of Standards

Robert E. Gee  
Midwest Technology Development  
Institute

Harold Gegel  
Wright-Patterson Air Force Base

Louis A. Gonzalez  
Metal Matrix Composite  
Information Analysis Center

Robert J. Gottschall  
U.S. Department of Energy

Michael Greenfield  
National Aeronautics and Space  
Administration

Don Gubser  
Naval Research Lab

Tim Gutowski  
Massachusetts Institute of  
Technology

Carmela Haklisch  
Rensselaer Polytechnic Institute

Richard Helmuth  
Portland Cement Association

Robert Katz  
Army Materials Technology  
Laboratories

Joe Jackson  
Suppliers of Advanced Composite  
Materials Association

Manfred Kaminsky  
Surface Treatment Science  
International

Charles Kaufmann  
American Cyanamid

Mike Kelley  
U.S. Department of Commerce

Joseph Kirkland  
E.I. du Pont de Nemours & Co.

Glenn Kuebeler  
Hercules Aerospace Co.

Bernard Levy  
inland Steel Research Laboratories

Emile G. Louzada  
Netherlands Embassy

Bernard Maggin  
National Research Council

Robert Manildi  
Hexcel Corp.

Dick McLane  
Boeing Commercial Airplane Co.

Bruce Merrifield  
U.S. Department of Commerce

Robert Murphy  
BASF Structural Materials, Inc.

Seymour Newman  
Ford Motor Co.

Chuck Northrup  
Strategic Defense Initiative Office

Paul Pendorf  
ICI Fiberite

Jerome Persh  
U.S. Department of Defense

John Quinlivan  
Boeing Commercial Airplane Co.

Darrell Reneker  
Office of Science and Technology  
Policy

Thomas Rhyne  
Microelectronics & Computer  
Technology Corp.

William C. Riley  
Research Opportunities, Inc.

Maxine Savitz  
Garrett Corp.

Lyle Schwartz  
National Bureau of Standards

Roger Seifried  
Cincinnati Milacron

Moira Shea  
U.S. Department of Commerce

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