# MRS Council Approves Headquarters Building

Anybody who has visited our Materials Research Society headquarters in Pittsburgh knows that we have outgrown our current leased space. Early last year, Carl Thompson, then president of MRS, chartered a task force consisting of councillors Merrilea Mayo, Charlie Duke, and me to work with John Ballance, executive director of MRS, and begin the process of looking for more appropriate rental space. During that search, we were also asked by the MRS Executive Committee to investigate the option of building a new headquarters. After many months of investigation, our analysis showed that the most cost-effective, long-term solution was in fact for us to construct our own building.

In the Fall of 1996, we contracted with a construction project manager and architect to determine a design and budget for the project. The first step in that process was establishing the building requirements. The programming team actively solicited input from the headquarters staff to define the building needs. In addition, a group of Society officers and councillors that sometimes conduct business at headquarters was also formed to provide input. Many thanks to Carl Thompson, John Bravman, Bob Nemanich, and Robert Hull for working with Merrilea Mayo on that team. By late October, we had reached a consensus on the requirements for a headquarters facility that we felt would serve us well into the next century. Special consideration was given to make the facility electronic communication friendly.

By the time of the 1996 MRS Fall Meeting/ICEM-96, we had found an ideal site for the building. It is in a commercial park near the present headquarters. The Minerals, Metals & Materials Society and



Current Materials Research Society headquarters are leased from the first and third floors of this office building on 9800 McKnight Road in Pittsburgh, Pennsylvania. the Society of Automotive Engineers headquarters are presently located in the park. In addition, we were ready to go to Council with a detailed floorplan, artist's concept, and detailed project budget. Council approved the project at the meeting, and we are ready to proceed with the financing and construction.

If all goes well, the staff at headquarters and the volunteers who occasionally use the facility will be in the new headquarters by early Fall of 1997.

Alan Taub



Artist's concept of the Materials Research Society headquarters building to be constructed during the summer of 1997 in Thorn Hill Industrial Park outside Pittsburgh, Pennsylvania, near the current leased office.



76

# BUY 2 GET 1 FREE

## TRIPLE YOUR RETURN ON INVESTMENT!!!

Reach materials scientists 3 different ways and SAVE MONEY at the same time.

Purchase an advertisement in Journal of Materials Research and the 1997 MRS Membership Directory and receive a FREE ad in MRS Bulletin.

#### OFFER EXPIRES APRIL 30, 1997

Contact Mary E. Kaufold today at 412-367-3036 to place your ads.

# 1997 MRS SPRING MEETING

# NEW MATERIALS DEVELOPMENT

**NEW CHARACTERIZATION METHODS** 

## **NEW PROCESS TECHNOLOGY**



# **1997 SPRING MEETING SYMPOSIA**

- A: Amorphous and Microcrystalline Silicon Technology 1997
- B: Epitaxial Growth Principles and Applications
- C: Processing of Compound Semiconductors for High-Speed Devices
- D: Gallium Nitride and Related Materials
- E: Defects and Diffusion in Silicon Processing
- F: Rapid Thermal and Integrated Processing VI
- G: Flat Panel Display Materials and Large-Area Processes
- H: Organic Electronic Materials and Devices
- I: Polycrystalline Thin Films III Structure, Texture, Properties, and Applications
- J: Materials Reliability in Microelectronics VII
- K: Multilevel Process Integration
- L: Epitaxial Oxide Thin Films
- M: Magnetic Ultrathin Films, Multilayers, and Surfaces
- N: Low-Dielectric-Constant Materials and Applications in Microelectronics
- 0: Materials/Failure Analysis for Silicon ULSI Processing
- P: Science and Technology of Semiconductor Surface Preparation
- Q: Thermoelectric Materials New Directions and ApproachesR: Materials Issues Related to Development of Textured
- High-Temperature Superconducting Conductors S: Materials for Optical Limiting II
- T: Computational Materials Science at the Mesoscale
- U: Rapid Prototyping and Solid Freeform Manufacture
- V: Interfacial Effects and Organization of Inorganic-Organic Composite Solids
- W: Metastability and Critical Phenomenon in Polymer Phase Behavior
- X: Frontiers of Materials Research
- Y: Materials in Sports and Recreation
- Z: Workshop on Specimen Preparation for Transmission Electron Microscopy of Materials IV

# SYMPOSIUM TUTORIAL PROGRAM

Available only to meeting registrants, the tutorials will concentrate on new, rapidly breaking areas of research and are designed to encourage the exchange of information by meeting attendees during the symposium.

# **EXHIBIT**

A major exhibit encompassing the full spectrum of equipment, instrumentation, products, software, publications, and services is scheduled for April 1 - 3 near the technical session rooms in the San Francisco Marriott Hotel.

# **PUBLICATIONS DESK**

A full display of over 500 books, plus videotapes and electronic databases, will be available at the MRS Publications Desk. Featured at this meeting will be the MRS Symposium Proceedings from both the 1996 Spring and Fall Meetings, as well as the highly acclaimed *Handbook of Modern Ion Beam Materials Analysis*.

# SYMPOSIUM AIDE OPPORTUNITIES

Graduate students who plan to attend the 1997 Spring Meeting and are willing to assist in the symposium presentations by operating audio-visual equipment are encouraged to apply for a Symposium Aide position. MRS will pay the 1997 Spring Meeting student registration fee (which includes complimentary student membership July 1, 1997, through June 30, 1998) and a small stipend toward expenses, for symposium aides who work a minimum of four full half-day sessions. An application form can be requested from MRS Member Services.

# **JOB CENTER**

A Job Center for MRS meeting attendees will be open Tuesday through Thursday during the 1997 Spring Meeting, 8:00a.m. - 5:00p.m. in Room Sierra B/C, San Francisco Marriott.

For additional meeting information, a detailed 1997 Spring Meeting program, or information on symposium tutorials, publications, exhibit, job center, or symposium aides, contact:



# **MRS Member Services**

9800 McKnight Road, Pittsburgh, PA 15237-6006 Telephone (412) 367-3003, Fax (412) 367-4373 E-mail: info@mrs.org MRS Website (http://www.mrs.org/)

The MRS 1997 Spring Meeting will serve as a key forum for discussion of interdisciplinary leading-edge materials research from around the world. Various meeting formats — oral, poster, round-table, forum and workshop sessions — are offered to maximize participation.

# **MRS 1997 Spring Meeting Tutorial Program**

Sunday • March 30	nday • March 30 Monday • March 31 Tuesday • April 1	
<b>Symposium H</b> 1:00 – 5:00 p.m. <b>STH:</b> Organic Electronic Materials and Devices Room: Golden Gate B1	Symposium A 8:30 a.m. – 4:30 p.m. STA: Amorphous Silicon Materials and Devices for Large-Area Electronics Room: Golden Gate A2	Symposium F 8:00 a.m. – 12:00 noon STF: Rapid Thermal and Integrated Processing Room: Nob Hill B
	Symposium G 1:30 – 5:00 p.m. STG: Flat Panel Display Materials and Large-Area Processing Room: Golden Gate A1	Symposium N 1:00 – 5:00 p.m. STN: Low-Dielectric-Constant Materials for B.E.O.L. High- Performance Integrated Circuits Room: Golden Gate B3
	Symposium J 8:30 a.m. – 12:00 noon STJ: The Role of Mechanical Properties and Microstructure in the Reliability of Advanced Microelectronic Interconnect Systems Room: Salon 5/6	Symposium O 1:00 – 6:00 p.m. STO: Diagnosis of ULSI Circuits Room: Salon 4

# Silicon for Research



A 3" diameter 2-4 μ membrane manufactured at VIrginia Semiconductor, Inc.

• think small quantities

- think thick or thin  $(2-4\mu)$
- think small diameter (1" to 4")
- think single or double side polishing
- think on or off axis for any orientation
- think **Virginia Semiconductor**, **Inc.**, your one source for all of the above.

1501 Powhatan Street, Fredericksburg, VA 22401 Phone (540) 373-2900 Fax (540) 371-0371

requirements "If VSI can't make them, you don't need them."

When it comes

diameter silicon

to small



# Partial List of 1997 Spring Exhibitors:

A & N Corporation ABB Extrel Academic Press, Inc. Accurel Systems International Corporation Aetrium, Inc. AIXTRON, Inc. AJA International, Inc. Aldrich Chemical Company, Inc. American Institute of Physics, Inc. APD Cryogenics, Inc. ASTeX/Applied Science and Technology, Inc. Bede Scientific Incorporated Blake Industries, Inc. Burleigh Instruments, Inc. Ceramaseal **CHA** Industries Chemat Technology, Inc. Commonwealth Scientific Corporation **Creekside Technologies** Cryomech, Inc. CSEM DCA Instruments, Inc. Denton Vacuum, Inc. Digital Instruments, Inc. **Duniway Stockroom** Eagle-Picher Industries, Inc. **EDAX** International **Elsevier Science** EMiSPEC Systems, Inc. **EMCORE** Corporation **EPI/MBE Products Group Epion/PVD Products** ERG Materials & Aerospace Corporation ESCETE B.V. **ESM Software** Charles Evans & Associates FEI Company, Components Group E. A. Fischione Instruments, Inc. Fujikin of America, Inc. Gatan. Inc. Heraeus Amersil, Inc. High Voltage Engineering

# San Francisco Marriott Hotel

## Salon 8 and Salon 9 Tuesday-Thursday, April 1-3, 1997

The MRS Exhibit, held in conjunction with the 1997 MRS Spring Meeting, will encompass the full spectrum of equipment, instrumentation, products, software, publications and services for materials research. As always, the exhibit will closely parallel the nature of the technical symposia. The technical program has been arranged to allow meeting participants ample opportunity to visit the exhibit, and MRS encourages attendees to visit the exhibit by scheduling coffee breaks, deli style lunches, and a meeting-wide reception in exhibit hall.

# **Exhibit Hours:**

Tuesday, April 1	11:30 a.m. — 6:30 p.m.
Complimentary Reception from 5:00 p.n	1 6:30 p.m.
Wednesday, April 2	9:00 a.m. — 5:00 p.m.
Thursday, April 3	9:00 a.m. — 1:30 p.m.

Huntington Mechanical Laboratories, Inc. Hysitron, Inc. IBM Analytical and Test Services Implant Sciences Corporation Inel. Inc. **INNOVAC** Corporation Instron Corporation Instruments SA. Inc. Insulator Seal Inc. Ion Tech, Inc. Janis Research Company, Inc. JEOL USA, Inc. k-Space Associates, Inc. Keithley Instruments, Inc. Kevex X-Ray Inc. Kluwer Academic Publishers Lake Shore Cryotronics, Inc. Lambda Physik, Inc. Lambda Technologies Lasertec U.S.A., Inc. Kurt J. Lesker Company LUXTRON Corporation Magnet Sales & Manufacturing MARCH Instruments, Inc. Materials Analysis Group/ **Philips Semiconductors MDC Vacuum Products Corporation** Melles Griot, Inc. Micro Photonics, Inc. MMR Technologies, Inc. Molecular Simulations, Inc. MVSystems, Inc. Nano Instruments, Inc. National Electrostatics Corporation Neocera. Inc. New Focus. Inc. Nicolet Instrument Corporation Nikko Hitech International, Inc. Noranda Advanced Materials Nor-Cal Products. Inc. **Omicron Associates Oxford Applied Research** 

Oxford Instruments, Inc./ Scientific Research Division Park Scientific Instruments Parke Mathematical Laboratories Philips Electronic Instruments Company Physical Electronics, Inc. Plasma Sciences, Inc. Plasmatron Coating Systems, Inc. Princeton Instruments, Inc. Pure Tech, Inc. QualiTau, Inc. Renishaw Inc. Research and PVD Materials Corporation Rigaku/USA, Inc. RMC SC Technology/Telemark SensArray Corporation Shiva Technologies, Inc. **SKION** Corporation South Bay Technology, Inc. SPI Supplies/Structure Probe, Inc. STAIB Instruments, Inc. Struers/Logitech Product Group SURFACE Surface/Interface, Inc. SVT Associates, Inc. **TECHNOTRADE** International, Inc. **Tencor Instruments** TexSEM Laboratories (TSL), Inc. Thermionics Laboratory, Inc. Thomas Swan & Co., Ltd. TopoMetrix Corp. Union Carbide Crystal Products Vacuum Atmospheres Co. Varian Vacuum Products VCR Group. Inc. Virginia Semiconductor, Inc. Voltaix, Inc. Yasui Seiki Co. (USA)

SEE AD IN THIS ISSUE

5

MARCH 31- APRIL 4, 1997

SAN FRANCISCO, CALÍFORNIA

Special pre-meeting prices effective

until April 15, 1997.

After April 15, 1997,

pay the higher prices on the right.



#### Materials Research Society

Pittshurn	h PA 15237
Phone:	412-367-3012
Fax:	412-367-4373
E-mail:	info@mrs.org
w.mrs.org/pu	blications/books/forms

Forthcoming from MRS at special pre-meeting prices...

# **1997 Spring Meeting** Symposium Proceedings

Place your order today for proceedings of the 1997 MRS Spring Meeting in San Francisco and SAVE!

### A: Amorphous and Microcrystalline Silicon Technology—1997 Editors: E.A. Schiff, M. Hack, S. Wagner, R. Schropp,

I. Shimizu

SBN: 1-55899-3	371-1 Code	: 467-B
\$52.00	\$62.00	MRS Member
\$60.00	\$71.00	U.S. List
\$69.00	\$82.00	Non-U.S.

#### D: Gallium Nitride and Related Materials II

Editors: C.R. Abernathy, H. Amano, J.C. Zolper ISBN: 1-55899-372-X Code: 468-B \$62.00 MRS Member \$52.00 \$60.00 \$71.00 U.S. List \$69.00 2.00Non-U.S.

#### E: Defects and Diffusion in Silicon Processing

Editors: S. Coffa, T. Diaz de la Rubia, P.A. Stolk, C.S. Rafferty 15

SBN: 1-55899·	-373-8 Code: 4	169-B
\$55.00	\$65.00	MRS Member
\$63.00	\$75.00	U.S. List
\$73.00	\$86.00	Non-U.S.

#### F: Rapid Thermal and Integrated **Processing VI**

Editors: T.J. Riley, J.C. Gelpey, F. Roozeboom, S. Saito

SBN: 1-55899-	374-6 Code:	470-B
\$52.00	\$62.00	MRS Member
\$60.00	\$71.00	U.S. List
\$69.00	\$82.00	Non-U.S.

#### G: Flat Panel Display Materials III

Editors: R. Fulks, G. Parsons, D. Slobodin,

I. Yuzuriha	
ISBN 1-55899-375-4	Code: 471

DIN. 1-00099-	375-4 Goue.	4/ I-D
\$52.00	\$62.00	MRS Member
\$60.00	\$71.00	U.S. List
\$69.00	\$82.00	Non-U.S.

D

472-B

#### Polycrystalline Thin Films—Structure Ŀ Texture, Properties and Applications III

Editors: J. Im, S. Yalisove, B. Adams, Y. Zhu,

n. Ullell		
SBN: 1-55899-37	6-2	Code:
AFF 00	005	00

\$55.00	\$65.00	MRS Member
\$63.00	\$75.00	U.S. List
\$73.00	\$86.00	Non-U.S.

#### J: Materials Reliability in Microelectronics VI

Editors: J.J. Clement, J. E. Sanchez, Jr., K.S. Krisch, Z. Suo, R.R. Keller IS

PRIN: 1-22888-	377-0 Gode: 4	4/3-B
\$55.00	\$65,00	MRS Member
\$63.00	\$75.00	U.S. List
\$73.00	\$86.00	Non-U.S.

#### L: Epitaxial Oxide Thin Films III Editors: C. Foster, J.S. Speck, D. Schlom, C-B. Eom,

M.E. Hawley

378-9 Co	ode: 474-B
\$65.00	MRS Member
\$75.00	U.S. List
\$86.00	Non-U.S.
	378-9 Co \$65.00 \$75.00 \$86.00

#### M: Magnetic Ultrathin Films, Multilayers and Surfaces—1997

Editors: D.D. Chambliss, J.G. Tobin, D. Kubinski, K. Barmak, W.J.M. de Jonge, T. Katayama, A. Schuhl, P. Dederichs

ISBN: 1-55899-	379-7 Code: 4	175-B
\$55.00	\$65.00	MRS Member
\$63.00	\$75.00	U.S. List
\$73.00	\$86.00	Non-U.S.

#### N: Low-Dielectric Constant Materials III

Editors: C. Case, P. Kohl, T. Kikkawa, W.W. Lee ISBN: 1-55899-380-0 Code: 476-B

\$48.00	\$57.00	MRS Member
\$55.00	\$66.00	U.S. List
\$63.00	\$76.00	Non-U.S.

#### P: Science and Technology of Semiconductor Surface Preparation

Editors: G.S. Higashi, M. Hirose, S. Raghavan, S. Verhaverbeke

ISBN: 1-55899-	381-9 Code: 4	77-В
\$50.00	\$60.00	MRS Member
\$58.00	\$68.00	U.S. List
\$66.00	\$79.00	Non-U.S.

#### Q: Thermoelectric Materials—New **Directions and Approaches**

Editors: T.M. Tritt, G. Mahan, H.B. Lyon, Jr., M.G. Kanatzidis

15

I

BN: 1-55899-	382-7 Code:	478-B
\$52.00	\$62.00	MRS Member
\$60.00	\$71.00	U.S. List
\$69.00	\$82.00	Non-U.S.

#### S: Materials for Optical Limiting II

Editors: P. Hood, R. Pachter, K. Lewis, J.W. Perry, D. Hagan, R. Sutherland

ISBN: 1-55899-	-383-5 Code: 4	179-B
\$52.00	\$62.00	MRS Member
\$60.00	\$71.00	U.S. List
\$69.00	\$82.00	Non-U.S.

#### **Specimen Preparation for Transmission** Z: **Electron Microscopy of Materials IV**

ditors: R.M. A	nderson, S.D. W	alck
SBN: 1-55899-	384-3 Code: 4	80-B
\$45.00	\$54.00	MRS Member
\$52.00	\$62.00	U.S. List
\$60.00	\$71.00	Non-U.S.

#### These books are scheduled for publication by fall or early winter 1997.

https://doi.org/10.1557/S0883769400032796 Published online by Cambridge University Press