

C-MRS Meets in Beijing

The week of June 17, 1990 saw the Chinese Materials Research Society (C-MRS) holding its first International Advanced Materials Meeting in Beijing, China. Fourteen separate parallel symposia, analogous to those found at most MRS meetings, covered a multiplicity of materials research topics. Each symposium was limited to about 60 participants to enhance opportunities for individual exchanges and to best fit the meeting's accommodations. On three successive mornings, a plenary symposium (Symposium N) was the sole session. Plenary talks by 14 invited distinguished materials scholars provided overviews on a wide variety of research areas and contributed strongly to the meeting's multidisciplinary character. Of the 800 participants, about 114 were from 20 foreign countries.

The meeting's venue, the Jing Feng Hotel, is located in the southwest part of Beijing some distance from the city's center. This somewhat sequestered environment provided an opportunity for participants to interact more intimately throughout the week. Nearly all the participants stayed at the conference hotel, where the sessions were held. All meeting logistics, from the attendees' arrival to their departure, from program planning to constructing poster boards, were handled by conference volunteers.

In addition to the technical sessions, the C-MRS meeting offered several social opportunities—a beer party the evening of June 18, a reception the evening of June 19, and a banquet the evening of June 21. The banquet filled the largest restaurant/ballroom of the Beijing Hotel in downtown Beijing. The meeting chairs also created opportunities to acknowledge contributions to the meeting's organization by members of the International Advisory Committee and by several symposium chairs.

One evening, an acrobatics troupe performed for participants and their guests in an auditorium adjoining the conference hotel grounds.

C-MRS, a conglomerate of some 30 societies, had meetings in 1986 and 1988, although not international ones. The success of those meetings, however, led to this first international meeting. This year's meeting was endorsed by cooperating societies from Japan (AMSES), Europe (E-MRS), and the United States (MRS). Submitted papers numbered 623, most presented in oral sessions and 163 as posters. Accepted papers will appear in several proceedings volumes to be published by the Elsevier North-Holland Publishing Company (Amsterdam).

In the opening plenary session, Guangshao Zhou, president of the Academia Sinica of Beijing, addressed attendees. This reflected the importance of the C-MRS meeting to the scientific and academic community in China. In addition, the ceremonial part of the June 21 banquet got brief coverage on Chinese television's evening news.

President Zhou described the Chinese environment in which the meeting was held, particularly the social and economic issues that concern China today. He indicated that a revamping of the management of Academia Sinica and of the entire science management system in China as a whole is under way. New funding systems, organized according to the nature of the research and including a peer review system, will span work funded through the National Natural Science Foundation at the basic level and by other key national laboratories. Zhou predicted the expansion of the scope of research at institutes in China and said this would involve a reduction in direct government involvement in the programs. He implied that a competitive mechanism for research funds would



Symposium A chairs:
(top, L-R) Changxu Shi,
Dongsheng Yan; (bottom,
L-R) Hengde Li, Zizhao Gan;
Zhongxian Zhao is not shown.



Symposium B chairs:
(top) Chenggong Li; (bottom,
L-R) Renjie Wu, Benlian
Zhou; E. Fitzer is not shown.



Symposium C chairs:
(top, L-R) Qiming Yuan, Xi
Yao; (bottom, L-R) Jingkun
Guo, I. Eric Cross.



Symposium G chairs:
(top, L-R) Guoliang Chen,
Donglian Lin, C.T. Liu;
(bottom, L-R) G. Sautoff,
Zengyong Zhong.



Symposium H chairs:
(top, L-R) Shichang Zou,
Baixin Liu; (bottom, L-R) J.S.
Williams, L.E. Rehn;
Zhonglie Wang is not shown.



Symposium I chairs:
(top, L-R) Lishi Wen, Akira
Kinbara; (bottom, L-R)
Avishay Katz, Lin Li.



Symposium J chairs:
(top, L-R) Zhongguang
Wang, Minggao Yan; (bottom,
L-R) Y.I. Ragozin, R.O.
Ritchie.

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be introduced in a "somewhat market" way, also announcing that institutes would be open to participation from all areas of China. He noted that funding for applications and products would increase, but that a percentage would be protected for basic research. Open laboratories with more visiting scientists than permanent staff would be forthcoming and the engineering sciences would be strengthened and encouraged to transfer technology to industry. Zhou even forecast that the Academy itself would serve as an incubator and provide loans or start-up capital for technology-based industries.

Some notable technical presentations can be mentioned. In Symposium A on superconductivity, Xu Qinlun (University of Science & Technology, Hefei, China) pre-

sented a report on a 130 K high-temperature superconductor. The system's composition, a bismuth, lead, antimony, strontium, calcium, copper-oxide mixed phase, resulted in rather convincing experimental data. The proposed underlying physical reason for a high transition temperature, compared to the highest bismuth-system temperature discovered so far (110 K), was somewhat less convincing.

A presentation by the well-known R. Hasiiguti of Japan (Symposium N) dealt with the relevance of lattice defects to reported observations on cold fusion. Hasiiguti contended that the energy needed for deuterons to react at a rate comparable to the lowest-intensity positive result reported on cold fusion could be obtained by assuming the presence of lattice defects in palladium metal electrodes. The defects would trap multiple deuterium atoms and provide adequate accelerations.

By most measures, the C-MRS meeting was quite successful, reaping many congratulatory remarks. "Everybody was mostly seduced by the high quality of the scientific discussions but also [by] the wealth of

human contacts," commented P. Hagenmuller (France). And according to J.E.E. Baglin (U.S.A.), "both the organization and content of the conference were excellent, foreign visitors were made very comfortable, ...[and] the diversity of symposium topics was a strong expression of the breadth of representation of multiple disciplines within the materials community in China."

C-MRS Meeting

Symposium	Topic
A	High T. Superconductors
B	Advanced Composite Materials
C	High-Performance Ceramics
D	Optoelectronic Materials
E	Advanced Engineering Plastics
F	Functional Polymer Materials
G	Intermetallic Compounds and High-Temperature Materials
H	Laser and Particle Beam Interactions with Solids
I	Thin Films
J	Fatigue and Fracture Behavior in Materials
K	Recent Advances of Tribomaterials
L	Biomedical Materials
M	Microstructures and Materials Design
N	Frontiers of Materials Research



Symposium D chairs: (top, L-R) Minhua Jiang, Fuxi Gan; (bottom, L-R) Meiyang Kong, C.W. Tu.



Symposium E chairs: (top, L-R) Zongneng Qi, Mengxian Ding; (bottom, L-R) L.A. Utracki, Xi Xu.



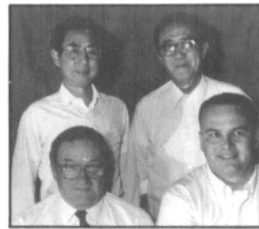
Symposium F chairs: (top) Fosong Wang; (bottom, L-R) Renyuan Qian, E.M. Genies; Tisato Kajiyama is not shown.



Symposium K chairs: (top) Shizhuo Li; (bottom, L-R) Koji Kato, Jiajun Liu.



Symposium L chairs: (L-R) Han Zou, Tingfei Xe; Y. Ikada is not shown.



Symposium M chairs: (top, L-R) Jiajun Xiong, Jimei Xiao; (bottom, L-R) John Radavich, John D. Dow.



Symposium N chairs: (top) Hengde Li, also secretary general for the C-MRS Meeting; (bottom, L-R) Dongsheng Yan and Changxu Shi, also chairs for the C-MRS Meeting.

EQUIPMENT EXHIBIT

1990 MRS Fall Meeting
Boston Marriott
Copley Place Hotel
Tuesday-Thursday, November 27-29

As part of the 1990 MRS Fall Meeting, a major equipment exhibit will display analytical and processing equipment closely paralleling the nature of the technical symposia. The technical program has been arranged to allow meeting participants ample opportunity to visit the exhibit, which will be located on the third floor of the Boston Marriott Copley Place Hotel.

Show Hours

Tuesday noon - 7:00 p.m.
Reception 5:00 p.m. - 7:00 p.m.
Wednesday 9:30 a.m. - 5:00 p.m.
Thursday 9:30 a.m. - 2:00 p.m.

EXHIBITORS

(as of September 19, 1990)

Academic Press, Inc.
AG Associates
Aixtron Inc.
American Chemical Society
American Institute of Physics
AMER-TEM
Anatech Ltd.
APD Cryogenics, Inc.
Applied Science and Technology/ASTEX
Balzers
Blake Industries, Inc.
Butterworth-Heinemann
Cahn Instruments
Cambridge Molecular Design
Cambridge University Press
Cameca Instruments, Inc.
Ceramaseal
Chapman and Hall
Commonwealth Scientific Corporation
Cryomech, Inc.
Denton Vacuum, Inc.
Digital Instruments
EG&G Parc
ElectroScan Corporation
Elsevier Science Publishers
Emcore Corporation
Energy Beam Sciences, Inc.
EPI
Charles Evans & Associates
FEI Company
E.A. Fischione Instruments
Ernest F. Fullam, Inc.
Gatan Inc.
Geller MicroAnalytical Laboratory
Goodfellow Corporation
Granville-Phillips Co.
R.G. Hansen & Associates
Hiden RGA Division

Hitachi Scientific Instruments
Huntington Labs
Ibis Technology
Image Micro Systems, Inc.
Implant Sciences Corporation
INEL, Inc.
Innovative Technology, Inc.
Instron Corporation
Instruments SA/JY Optical Division
Instruments SA/Riber Division
International Scientific Instruments
Ion Tech, Inc.
Janis Research Company
JCPDS-ICDD
JEOL U.S.A.
Keithley Instruments
Kimball Physics Inc.
Kratos Analytical
Lake Shore Cryotronics
Lambda Physik
Kurt J. Lesker Co.
Leybold Vacuum Products
Link Analytical
Luxtron Corporation
Maxwell Electronics
McAllister Technical Services
MDC Vacuum Products Corporation
Microscience, Inc.
MKS Instruments, Inc.
MMR Technologies
MR Semicon, Inc.
National Electrostatics Corporation
Nor-Cal Products, Inc.
North Eastern Analytical Corporation
Omicron Associates
Oxford Instruments NA, Inc.
Oxford Plasma Technology
Oxford University Press

Peabody Scientific
Pergamon Press
Perkin-Elmer Corporation
Philips Electronic Instruments Company
Plasma-Therm
Plenum Publishing Corporation
Princeton Gamma-Tech, Inc.
Princeton Instruments
Process Products Corporation
Pure Tech Inc.
Quantum Design, Inc.
Rigaku/USA
RMC Cryosystems
Rudolph Research
Scientific Instruments
Scintag Buehler
Siemens X-Ray
SOPRA
South Bay Technology, Inc.
Spectra Instruments
SPEX Industries, Inc.
Spire Corporation
Springer-Verlag N.Y.
Strem Chemicals Inc.
Structure Probe, Inc./SPI Supplies
Superconductive Components, Inc.
SYCON Instruments
Tencor Instruments
Thermionics Laboratory Inc.
Ulvac/Sinku Riku
VG Instruments
Vacuum Barrier Corporation
Varian/Vacuum Products Division
VAT, Inc.
VCR Group, Inc.
Virginia Semiconductor, Inc.
Voltaix, Inc.
Wavemat
Wyko Corporation
Carl Zeiss, Inc.

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