

Expanded Short Course Program Announced

New Topics, More Frequent Course Schedules, Special Course Packages

Beginning in 1986, the Materials Research Society will implement a major expansion of its highly successful Short Course Program. The expansion is intended to make course offerings more representative of the wide variety of materials topics addressed at MRS meetings. It will also provide participants greater opportunities to learn about the latest developments in important and emerging technologies in a tutorial setting through more frequent and flexible scheduling.

As a first step toward these goals, MRS has appointed Vivienne Harwood Mattox as short course manager. Her enthusiasm and experience with continuing education in the field of science and engineering will guide the development of the program. (See "Vivienne Harwood Mattox Appointed MRS Short Course Manager.")

MRS short courses are intense, one or multiple day instructional sessions dealing with the latest materials processing and characterization technologies. They benefit MRS members as well as the scientific and engineering community in general through coverage of basic, applied, advanced and specialty topics. The MRS Short Course Program has grown from one offering on Liquid Phase Epitaxy taught by L. R. Dawson in 1982 to 14 courses at the 1985 Fall Meeting in Boston.

Core and Specialty Courses Planned

The goal of the Short Course Program is to present high-quality, professional and comprehensive short courses which serve the needs of the materials science and engineering communities. As a result of expansion, both core and specialty courses are anticipated which will further this objective. Core-type courses are designed to provide thorough coverage of fundamental subject areas; specialty-type courses are graduate level courses on subjects of interest to specific groups. With the assistance of a Technical Development Subcommittee of the MRS Education Committee, new courses will be developed on topics which relate to the multi-dimensional interests of the Society.

Course content and course materials will receive peer review to ensure top-quality scientific content and will be taught by highly qualified instructors who have up-to-date knowledge of the field. The courses will encompass current theories, technology and equipment.

Flexible Schedules, Adaptable Venues

Future courses programs will be offered in several different forums. In general, programs offered at MRS Spring and Fall Meetings will span a five-day period to enable course attendees to register for more than one course as well as to attend the technical symposia. It is hoped that scheduling will enable most course topics to complement the symposia so that meeting attendees can also participate in the course program.

Reduced fees will be offered for course attendees who register for certain groups of courses in a topical series during a single time period. Priority registration will be given to persons who wish to register for these course packages.

Courses will also be offered on-site or locally in response to specific requests from organizations. On-site courses will provide all the advantages of a regular MRS course, plus the convenience and economy of enabling participants to remain at home. Some on-site courses will be developed specifically for technical personnel who are not free to attend courses away from their jobs.

To some degree, on-site courses can be customized to deal with specific problems

of course attendees. The on-site program is intended to be responsive to the needs of MRS corporate affiliates and other industrial and federally funded organizations.

Long-range plans also provide for stand-alone groups of courses to be offered in convenient geographical locations, independent of MRS annual meetings.

Member Participation Sought

MRS members and other individuals active in the materials science and engineering communities can assist in the growth of the MRS Short Course Program in a number of ways. Individuals are invited to recommend new course topics and instructors, and assist in peer review of courses and course materials. Individuals may also assist by making the MRS program known within their organization and to their local professional community.

If you are interested in providing names of potential new course topics and/or instructors for the program or would like to assist in promoting the program, contact Vivienne Harwood Mattox, MRS Short Course Manager, 440 Live Oak Loop, Albuquerque, NM 87122; telephone (505) 294-9532.

NEW FROM MRS . . .

ON-SITE SHORT COURSES

conducted at your own facilities or a nearby site

The best way to keep your staff on top of their fields is through an on-going program of continuing education. One of the most efficient, cost-effective methods is to bring experts to your geographical location so that they can teach the latest techniques, discuss the newest research, and talk to your staff about the actual problems that they face daily.

The economic savings of On-Site programs are considerable, both in terms of time and budget. There are no travel fees or hotel costs for your staff, and attendees lose minimal time from their work.

MRS On-Site courses will be adapted to the specific needs of the sponsoring organization and the management will have an opportunity to interact with the instructor to discuss the course emphasis. Written requests from organizations will be handled on a first-come, first-served basis. For further details of courses which are available, prices and other information, write or call:

Vivienne Harwood Mattox, Short Course Manager, Materials Research Society, 440 Live Oak Loop, Albuquerque, NM 87122; telephone (505) 294-9532

International Conference on Semiconductor and IC Technology To Be Held in China

An International Conference on Semiconductor and Integrated Circuit Technology is planned for October 1986 in Beijing, China. The conference is being co-sponsored by the Chinese Institute of Electronics and by the Continuing Education in Engineering, University Extension of the University of California at Berkeley. The technical focus of this international forum will be a broad review of materials and processing issues associated with the fabrication of semiconductor and IC devices. The Beijing location will provide an important opportunity to establish contacts with a large number of Chinese scientists and

technologists.

The conference committee includes: Zheng Wenhao (Chinese Institute of Electronics), Yu Zhongyu (Ministry of Electronics Industries, China), Wang Yang Yuan (Peking University), Takuo Sugano (Tokyo University), Michael Strathman (Charles Evans & Associates), Nathan Cheung (University of California, Berkeley), and James Stimmell (National Semiconductor). Papers are expected to address the following topics: lithography, ion implantation, diffusion/oxidation, Si materials, rapid thermal processing, thin-film deposition, amorphous Si, MOS technology, bipolar technology, IC circuit design, yield/reliability, etching, packaging, process characterization, materials characterization, clean-room technology, electronic-grade chemicals, high-purity water, toxic-materials handling, fab safety

and maintenance, education and training, fab management and superconductor electronics.

The conference is scheduled for a seven-day period beginning the week of October 19, 1986. It will feature four days of talks and poster sessions. There will be several plenary sessions devoted to opportunities for cooperation and joint ventures in China. Tours of factories, research institutes, universities, and other sites in the Beijing area will emphasize computer, communication, and IC fabrication facilities. Opportunities for additional interaction will be provided at the factory sites and research laboratories.

Contact Continuing Education in Engineering, University Extension, University of California, 2223 Fulton Street, Berkeley, CA 94720.

Vivienne Harwood Mattox Appointed Short Course Manager

Vivienne Harwood Maddox has recently been appointed short course manager of the Materials Research Society Short Course Program to further the Society's goal in providing broader and more comprehensive educational courses. In making the announcement, MRS Vice President Gordon E. Pike remarked, "Vivienne's extensive experience in teaching and management of continuing education in high-technology areas will be extremely valuable to MRS's rapidly growing Short Course Program."

Mattox brings to MRS a wide variety of experience in scientific research, teaching, vacuum system design, marketing, and in the development of short course programs. She received a BSc with honors in physics from the University of Exeter, England in 1959. In the early 1960s, she conducted research on the compressive and tensile strength of coal at the Mining Research Establishment of the National Coal Board in England while teaching part-time as a lecturer in physics. From 1961-1964, she was a full-time lecturer in physics at the Bristol College of Science and Technology, where she developed and taught a laboratory course in vacuum science and technology for college students and representatives from industry.

She became assistant professor in the electrical engineering department of the University of Alberta, Canada in 1964, where she developed a teaching laboratory and graduate course in vacuum science and technology. While vacuum design group leader for TRIUMF (Tri-University Meson Facility) at the University of British Columbia from 1966-1969, she designed and supervised the construction of the vacuum system of the accelerator. Following



Vivienne Harwood Mattox

her move to Bethesda, Maryland in 1969, she started her own marketing business in the real estate field.

From 1969-1984, Mattox devoted extensive time to the Education Committee of the American Vacuum Society and greatly expanded the educational services of the Society. She coordinated a book of laboratory experiments used for teaching vacuum technology and organized the first national AVS short course offering in 1970. As Education Committee Chairperson from 1974-1976, she supervised the production of the U. S. contribution of visual aids to the international project of IUVESTA, and initiated the production of Society monographs from short course notes.

She was the short course coordinator for the American Vacuum Society from 1977-1983, during which time she was responsible for the dramatic growth of the AVS short course program. After a reorganization of the program to cope with its growth, Mattox assumed the role of technical marketing chairperson until moving to Albuquerque in 1984. She served as an elected member of the AVS Board of Directors from 1980-1981, and has received several awards from the American Vacuum Society for her contributions to the development of its short course program.

1986 MRS SHORT COURSES

in conjunction with the

**Spring Meeting
Palo Alto, California**

*Look for course
details in the
mail or contact*

*MRS Headquarters
at (412) 367-3003.*