

MRS BULLETIN Editorial Board Formed

Fifteen materials research professionals have been appointed to positions on the newly formed **MRS BULLETIN** Editorial Board. "The board is currently comprised of a most distinguished group of scientists from around the world," according to Harry Leamy, who has been working to establish the board since late last year. "The mandate of the board is to significantly expand the scope of the **BULLETIN** to make it a more complete voice and printed meeting place for the materials science profession. The broad international representation and technical expertise of board members will enable us to accomplish this."

Additional board members will be announced in upcoming issues of the **BULLETIN**, and MRS members and other interested professionals are encouraged to contact any of the board members to discuss contributions and ideas for the **BULLETIN**. See the last issue of the **MRS BULLETIN** (Vol. X, No. 1) for a description of the types of items solicited for publication in future issues.

MRS BULLETIN EDITORIAL BOARD



RICHARD B. FAIR
Vice President, Research Program Management
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Dr. Fair has been responsible for the development of power transistors, IMPATT diodes, and other microwave devices, as well as MOS technology and IC design. In addition to his current responsibilities as vice president, research program management, he is professor of electrical engineering at Duke University. He is the author of over 50 journal articles and has presented over 40 invited talks at conferences in the areas of impurity diffusion and device physics. As a member of the Materials Research Society, he served as the co-chairman on the symposium on Impurity Diffusion and Gettering in Semiconductors at the 1984 Fall Meeting, and holds membership in numerous other organizations.



SHU-EN HSU
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In 1972, Dr. Hsu formed the CSIST Materials R&D Center, where he currently serves as director. He is responsible for planning and directing activities in the areas of composites; magnetic, chemical-electric, solid-state materials; powder metallurgy; materials processing; and high-temperature materials for aeronautical applications. Dr. Hsu is an adjunct professor of National Taiwan University, acting president of the Chinese Society in Materials Science, as well as a member of the Materials Research Society.



FRANK Y. FRADIN
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As director, Materials Science and Technology Division at Argonne National Laboratory, Dr. Fradin directs a research staff of over 200 in areas of advanced materials (including layered and thin films, organic conductors, complex oxides, glasses, superconductors, and magnetic materials), surface science and corrosion (including heterogeneous catalysts, high temperature aqueous corrosion, and ion surface interactions), defects and radiation effects (including ion and neutron damage, ion beam surface modification, and solid-state processed amorphous alloys), and materials technology (including materials for fission, fusion, fossil, and fuel cell technologies).



RALPH J. JACCODINE
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Dr. Jaccodine joined the faculty of Lehigh University in 1982 and was named director of the newly established Sherman Fairchild Center for Solid State Studies in 1983. Prior to coming to Lehigh, he helped guide the development on integrated circuit materials and processing technologies at Bell Telephone Laboratories. His research interests include studies of single crystals as well as amorphous materials and the interaction of these materials with processing. The influence of impurities (such as oxygen and carbon) and imperfections (such as dislocations, stacking faults) on behavior of these materials devices are areas of his current work.



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Dr. Kamimura has been affiliated with the University of Tokyo, Department of Physics in a number of positions since 1959, and also spent a number of years as a member of the technical staff of AT&T Bell Laboratories and as a visiting scholar, Cavendish Laboratory at Cambridge University during this period. He served as conference secretary of the 15th International Conference on the Physics of Semiconductors, as a member of the IUPAP Semiconductor Commission, and as vice president of the Physical Society of Japan. He is currently chairman of the IUPAP Semiconductor Commission, president of the Physical Society of Japan, and editor of Solid State Communications.



JAMES L. MERZ
 Associate Dean for Research
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Dr. Merz joined the University of California in 1978 as professor of electrical engineering and later served as chairman of the Department of Electrical and Computer Engineering until his recent appointment as associate dean of Research Development for the College of Engineering. He is also director of the Semiconductor Research Corporation's Core Program on GaAs Digital Integrated Circuits. Dr. Merz is a member of numerous professional societies, including the Materials Research Society, and serves on the board of directors of the Science and Engineering Council of Santa Barbara, Inc., and as a member of the University Advisory Committee for the Semiconductor Research Corporation.



ELTON N. KAUFMANN
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Dr. Kaufmann, 1985 MRS President, joined the Chemistry and Materials Science Department of Lawrence Livermore National Laboratory in 1981 after 13 years at Bell Laboratories. He is currently involved in the application of directed energy processing methods to materials. He has been an active member of MRS for many years, serving as chairperson of the 1980 symposium on Nuclear and Electron Resonance Spectroscopies Applied to Materials Science, as co-chairperson of the 1982 MRS Fall Meeting, 1982 chairperson of the Corporate Participation Committee, 1983 Second Vice President, and 1984 President-Elect. He is editor of the journal Hyperfine Interactions, has written over 85 publications and edited two books, and is a frequent speaker at Society and other professional events.



SUSUMU NAMBA
 Professor of Electrical Engineering
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Dr. Namba became a research fellow of the Institute of Physical and Chemical Research and has served as head of the Semiconductor Laboratory since 1966. He became professor at Osaka University in 1967, and is currently interested in research in the areas of ion implantation, thin film technology, optoelectronics, and submicron fabrication technology. Dr. Namba is a member of the Japan Society of Applied Physics, the Physical Society of Japan, and the Institute of Electronics and Communications Engineers of Japan, as well as the Materials Research Society.



HARRY J. LEAMY
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Harry Leamy, long an active member of the Materials Research Society, has served as Publications Committee Chairperson, Vice President, and then 1983 MRS President. He is chairman of the MRS BULLETIN Editorial Board. He has spearheaded the development of the BULLETIN in the past and is committed to its on-going growth. Leamy is a technical supervisor at Bell Laboratories. His research activities cover a broad range of topics from semiconductor defects, devices, and processing to magnetic materials, metallic glasses, and electron microscopy.



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Julia Phillips is a member of the technical staff of AT&T Bell Laboratories. Her research interests are growth and characterization of heteroepitaxial systems, especially epitaxial insulator-semiconductor systems by molecular beam epitaxy. She is an active member and promotor of the Materials Research Society. In 1984 she headed for MRS Public Relations/ Publicity Working Group through which she led publicity campaigns promoting MRS events and activities. She is currently chairperson of the Public Relations and Publicity Committee, which evolved from the activities of the Working Group. Phillips is the author of a number of technical papers and is a frequent speaker at MRS meetings.

**RUSTUM ROY**

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In addition to his responsibilities as director of the Materials Research Laboratory at Penn State, Dr. Roy is Evan Pugh Professor of the Solid State, professor of geochemistry, and chairman of the Science, Technology, and Society Program. He is a Councillor of the Society and serves on the Nominating Committee. He is a past member of the Society's Education and Long Range Planning Committees and serves as chairman of the popular Symposium for the Non-Specialist (Symposium X) at MRS Fall and Spring Meetings. He is also editor of The Journal of Materials Education.

**C. W. WHITE**

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Dr. White is a group leader of the Ion-Solid Interactions Group in the Solid State Division of the Oak Ridge National Laboratory. His research interests include ion implantation, laser annealing, ion beam analysis, surface physics, and ion beam modification of materials. He has been an active member of the Materials Research Society for many years, serving as 1984 MRS President, 1983 First Vice President, and a co-chairman of the 1979 symposium on Laser and Electron Beam Processing of Materials and the 1983 symposium on Ion Implantation and Ion Beam Processing of Materials. As the immediate Past President of the Society, he is chairman of the Awards, Nominating, and Long Range Planning Committees.

**RICHARD L. SCHWOEBEL**

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Dr. Schwoebel is director of materials and process sciences at Sandia National Laboratories. He is active in many MRS affairs, and recently completed terms of office as MRS Secretary and Councillor. He currently heads the Society's External Affairs Committee recently established to define and fulfill the Society's role on the national and international scene as a source of information and influence in materials research matters. He is a Fellow of both the American Physical Society and the American Institute of Chemists.

**XIE XIDE**

Professor of Physics and President
Fudan University
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Dr. Xide received her BS from Xiamen University, China, MA from Smith College (1949), and PhD from Massachusetts Institute of Technology (1951). She is presently interested in research in the areas of electronic states on solid surfaces and interfaces.

**TAKUO SUGANO**

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Dr. Sugano joined the University of Tokyo in 1959, where he is now professor of electronics. His current research interests focus on physics involved in materials and devices technologies, and in high-speed digital devices and integrated circuits. He is particularly interested in physics and technology related to SiO₂-Si, dielectric, and III-V semiconductor systems, and Josephson junctions for digital circuits application. In 1974, he was honored by the Institute of Electronics and Electrical Engineers of Japan and also received the Matsunaga Prize for his outstanding contribution to research on MOS and Schottky devices, and received the Inoue Prize for his contribution to the research and development of plasma anodization techniques.

1985 MRS Spring Meeting Final Program

To obtain a copy of the final program containing complete abstracts of the nearly 400 papers presented at the meeting, send a check for \$4.00 to:

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