

Journal of Materials Research Begins Third Year of Publication

With the January/February 1988 issue currently in production, *Journal of Materials Research* enters its third year of publication. This first issue of Volume 3 continues to offer new insights into the diverse field of materials research, presenting approximately 20 articles in 200 pages. Topics featured in the January/February issue include intermetallic alloys, thin films, intercalation, and ceramics.

During its first two years of publication, *Journal of Materials Research* continually increased topical coverage, readership, and international contributions. Surpassing Volume 1 in both published pages and number of articles, Volume 2 reached nearly 1,000 pages with almost 120 articles, rapid communications, reviews, and commentaries dealing with leading-edge original materials research. Volume 3 promises further expansion in breadth and depth of topics covered, as well as increased distribution and more high-quality articles.

The following is a partial list of papers scheduled to appear in the January/February 1988 issue of *Journal of Materials Research*:

- A New Type of Brittle Fracture in an fcc Metal Bicrystal with Intergranular Segregation, by J-S. Wang.
- Anisotropic Shrinkage of Cordierite-Type Glass Powder Cylindrical Compacts, by H.E. Exner and E.A. Giess.
- \bar{c} Axis Conductivity and Conductivity Anisotropy in Graphite Intercalation Compounds, by E. McRae and J.F. Marché.
- Crystal Structure Modification of the Rhombohedral Mu Phase in a C-276 Alloy, by R. Ayer, J.C. Scanlon, M. Watkins, G.A. Vaughn, and J.W. Steeds.
- Crystallographic and Transport Studies on AsF₅ Intercalated Graphite from 4.2 to 295 K: 1. Structural Ordering and Phase Separation, by M. Lelaurain, J.F. Marché, E. McRae, G. Furdin, and A. Hérold.
- Crystallographic and Transport Studies on AsF₅ Intercalated Graphite from 4.2 to 295K: 2. Effects of Structural Transformations and Demixing on Basal Plane and \bar{c} Axis Electrical Resistivity, by E. McRae, M. Lelaurain, J.F. Marché, G. Furdin, A. Hérold, and M. Saint Jean.
- Decoupled Bulk and Surface Crystallization in Pd₈₅Si₁₅ Glassy Metallic Alloys—Description of Isothermal Crystallization by a Local Value of the Avrami Exponent, by A. Calka and A.P. Radliński.
- Dielectric, Piezoelectric and Pyroelectric Studies of LiTaO₃ Derived Ceramics Sintered at 900°C Thanks to Addition of (LiF + MgF₂), by Z.G. Ye, R. Von Der Mühl, J. Ravez, and P. Hagemüller.

- Effects of the Band Offset on Interfacial Deep Levels, by R.P. Beres, R.E. Allen, and J.D. Dow.
- Magnetic Hardening Mechanism in Sintered R-Fe-B Permanent Magnets, by M. Sagawa and S. Hirosawa.
- Molybdenum Effect on Fe-Cr-Ni Alloy Elastic Constants, by H.M. Ledbetter and S.A. Kim.
- Nucleation of a New Phase from the Interaction of Two Adjacent Phases: Some Silicides, by F.M. d'Heurle.
- On the Nature of the Quasicrystalline Phases Obtained in Alloys of Al₈₆Mn₁₄ Under Slow Solidification Rates, by J. Reyes-Gasga, J.G. Pérez-Ramírez, and R. Pérez.
- Oxygen Diffusion in La_{2-x}Sr_xCuO_{4-y}⁺, by J.L. Routbort, S.J. Rothman, B.K. Flandermeyer, L.J. Nowicki, and J.E. Baker.
- Rapid Crystallization of Thin Solid Films, by C.J. van der Poel.
- Rapidly Solidified Al₃ Ti-Base Alloys Containing Ni, by S.C. Huang, E.L. Hall, and M.F.X. Gigliotti.
- Reactions Between Palladium and Gallium Arsenide: Bulk vs. Thin Film Studies, by J-C. Lin, K-C. Hsieh, K.J. Schulz, and Y.A. Chang.

- The Determination of Hardness and Adhesion of Sputter-Deposited Aluminum on Silicon by Utilizing a Continuous Indentation Test, by D. Stone, W. LaFontaine, P. Alexopoulos, T-W. Wu, and C-Y. Li.
- The Structure of Thin Films Sputter-Deposited from a Ba₂Si₂TiO₈ Ceramic Target, by H. Yamauchi, R.J. White, M. Ayukawa, T.C. Murray, and J.W. Robinson.
- Tracer Diffusion of ⁶⁰Co and ⁶³Ni in Amorphous NiZr Alloy, by K. Hoshino, R.S. Averback, H. Hahn, and S.J. Rothman.

Journal of Materials Research offers rapid publication and wide distribution of original materials research articles. For information on article submission requirements for *Journal of Materials Research*, contact Linda Krysinski, Editorial Office Supervisor, Journal of Materials Research, Materials Research Society, 9800 McKnight Road, Suite 327, Pittsburgh, PA 15237; telephone (412) 367-9111.

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Candidates Sought for Graduate Student Awards at 1988 MRS Spring Meeting

The Materials Research Society announces the availability of several awards for graduate students at the 1988 MRS Spring Meeting to be held April 5-9 in Reno, Nevada. Each award consists of a \$250 cash prize, payment of the registration fee for the 1988 Spring Meeting, and a certificate of achievement.

To qualify for a Graduate Student Award for the 1988 MRS Spring Meeting, the applicant must be a registered graduate student whose thesis research closely relates to one of the symposium topics at the meeting. The student must be an author or co-author of a symposium paper but need not be the presenter of the paper. MRS membership is not required, but the student must attend the meeting to receive the award.

Selection criteria include: outstanding performance in the conduct of the research, originality of the applicant's contributions, significant and timely research results, and the promise for substantial future achievement in materials research.

Application materials required include an application form obtainable from MRS headquarters, abstract of the paper to be presented at the meeting, and a letter of support from the research supervisor.

The deadline for applications to be received by MRS headquarters is **February 1, 1988**. Obtain application form from and submit completed application to:

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