

# Second Issue of Journal of Materials Research Published

MRS's New Journal Continues to Draw Enthusiasm from Research Community

The second issue of *Journal of Materials Research* (Vol. 1, No. 2) was published in May featuring 18 articles and two rapid communications. "The flow of manuscripts into the Editorial Office is remarkable," stated MRS President Gordon Pike. "It has been less than one year since the creation of this new journal was announced and manuscripts have been coming in from all areas of the world since then. This clearly demonstrates that *JMR* is providing a much needed and valuable service to materials research. We are encouraged by this response and more enthusiastic than ever about its potential."

Manuscripts are invited for upcoming issues of the Journal. See manuscript preparation instructions in the March/April issue of the BULLETIN. For further information, contact Editor in Chief Charles B. Duke, Xerox Webster Research Center, 800 Phillips Road, 0114/38D, Webster, NY 14580; telephone (716) 422-2109.

The second issue of *Journal of Materials Research* includes:

## Rapid Communications

"Dependence of Heavy-Ion Induced Adhesion on Energy Loss and Time" by Robert Stokstad, P.M. Jacobs, I. Tserryua, L. Sapir and G. Mamane.

"Effect of Reaction Temperature on the Average Crystalline Size of  $\text{Se}_x\text{Te}_{1-x}$  Alloys" by S.S. Badesha, G.T. Fekete and I. Tarnawskyj.

## Articles

"Quasicrystalline Transformation in the AlCr System" by D.A. Lilienfeld, M. Nastasi, H.H. Johnson, D.G. Ast and J.W. Mayer.

"NMR in Al-Rich Quasiperiodic Crystals" by M. Rubinstein, G.H. Stauss, T.E. Phillips, K. Moorjani and L.H. Bennett.

"Study of the Icosahedral Phase:  $\text{Mg}_{32}(\text{Al,Zn})_{49}$ " by G.V.S. Sastry and P. Ramachandrarao.

"Mechanisms and Kinetics of Ion Implantation" by Nghi Q. Lam and Gary K. Leaf.

"Stability and Formation of  $\text{NiAl}_3$  Under Ion Irradiation" by M. Nastasi, H.H. Johnson, J.W. Mayer and J.M. Williams.

"Self-Propagating High-Temperature Synthesis (SHS) of  $\text{SiC}$ " by Osamu Yamada, Yoshinari Miyamoto and Mitsue Koizumi.

"Novel Metal Oxides Prepared by Ingenious Synthetic Routes" by C.N.R. Rao,



**Paula Ransone, AIP senior copy editor, enjoys a break after publication of the inaugural issue of *Journal of Materials Research*. The first issue, published in March, contained 23 technical articles, one review article, and four rapid communications.**

J. Gopalakrishnan, K. Vidyasagar, A.K. Ganguli, R. Ramanan and L. Ganapathi.

"Phase Analysis of Sintered Ytria-Zirconia Ceramics by X-Ray Diffraction" by A. Paterson and R. Stevens.

"Electrical and Optical Transport in Undoped and Indium Doped Zinc Oxide Films" by S. Major, A. Banerjee and K.L. Chopra.

"Properties of Furnace Annealed, High-Resistivity, Arsenic Implanted Polycrystalline Silicon Films" by W.K. Schubert.

"Ion Mixing of Ni-Pt Films on Si" by T. Sawada, C.S. Pai, S.S. Lau, D.B. Paker and Ch. Buchal.

"Electrical and Structural Characterization of Nb-Si Thin Alloy Film" by F. Nava, P.A. Psaras, H. Takai and K.N. Tu.

"Investigation of Quantum Well and Tunnel Barrier Growth by Resonant Tunneling" by M.A. Reed, J.W. Lee, R.K. Aldert and A.E. Wetsel.

"Entropy-Driven Loss of Gas-Phase Group V Species from Gold/III-V Compound Semiconductor Systems" by John H. Pugh and R. Stanley Williams.

"Solid Phase Equilibria in the Au-Ga-As,

Au-Ga-Sb, Au-In-As, and Au-In-Sb Ternaries" by C. Thomas Tsai and R.S. Williams.

"Raman Scattering Study of the Staging Kinetics in the C-Face Skin of Pyrolytic Graphite- $\text{H}_2\text{SO}_4$ " by P.C. Eklund, C.H. Olk, F.J. Holler, J.G. Spolar and E.T. Arakawa.

"Computer Simulation of Target Link Explosion in Laser Programmable Redundancy for Silicon Memory" by L.M. Scarfone and J.D. Chlipala.

"Influence of Strain Rate on Laterally Confined Concrete Columns Subjected to Cyclic Loading" by S.H. Perry, A.H. Al-Shaikh and H.K. Cheong.

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Appointments to the position  
of Principal Editor for  
*Journal of Materials Research*

will be made in the Fall. To recommend a candidate for this position, contact C.B. Duke, Xerox Webster Research Center, by August 1.