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Faculty Publications and Research

Publications

Bergmann, Peter G. "Geometrization of Physics or Physicalization of Geometry?" In *Proceedings of the Einstein Symposium at the Technische Universität Berlin*. Berlin and Heidelberg: Springer-Verlag, in press.

Bergmann, Peter G. "Unitary Field Theory: Yesterday, Today, Tomorrow." In *Proceedings of the Einstein Centenary Celebration*. East Berlin: Akademie-Verlag, in press.

Bergmann, Peter G.; and Komar, Arthur. "The Phase Space Formulation of General Relativity and Approaches toward Its Canonical Quantization." In *General Relativity and Gravitation: One Hundred Years after the Birth of Albert Einstein*. Edited by A. Held. New York: Plenum, 1980.

Bhatia, Tej K. "Hindi Grammar and Grammarians: History and Problems." In *Die indischen Sprachen*. India section edited by J. Ganda. *Handbüch der Orientalistik*. Leiden: Brill, in press.

Dunham, Philip B.; and Hoffman, Joseph F. "Na and K Transport in Red Blood Cells." In *Physiology of Membrane Disorders*, edited by T. E. Andreoli, J. F. Hoffman, and D. D. Fanestil. New York: Plenum, 1979.

Levy, H. R. "Glucose-6-Phosphate Dehydrogenases." In *Advances in Enzymology and Related Areas of Molecular Biology*, 48, edited by A. Meister. New York: Wiley, 1979.

Lipson, Edward D. "Sensory Transduction in *Phycomyces* Photoresponses." In *The Blue Light Syndrome*, edited by H. Senger. Heidelberg and New York: Springer-Verlag, 1980.

Lundgren, D. G.; and Dean, W. "Biogeochemistry of Iron." In *Biogeochemical Cycling of Mineral-Forming Elements*, edited by P. A. Trudiger and R. Swain. New York: Elsevier North-Holland, 1979.

Syracuse Scholar will convey information regarding recent publications and research by Syracuse University faculty members. The editor welcomes news concerning books and papers published and in progress, academic honors received, group projects, and other pertinent information on faculty research.

McNaughton, S. J.; and Wolf, Larry L. *General Ecology*, 2d ed. New York: Holt, Rinehart & Winston, 1979.

Rohrlich, Fritz. "Classical Charged Particles." Reading, Mass.: Addison-Wesley, 1965. Revised and translated into Polish. To appear in 1980 in Poland.

Rohrlich, Fritz. "Covariant Hamiltonian Systems Leading to Confinement." In *Proceedings of the VIII International Colloquium on Group Theoretical Methods in Physics*, March 1979. Israel.

Rohrlich, Fritz. "Fundamental Physical Problems of Quantum Electrodynamics." In *Foundations of Radiation Theory and Quantum Electrodynamics*. New York: Plenum, in press.

Rohrlich, Fritz. "Quantum Electrodynamics." In *Encyclopedia of Physics*. Reading, Mass.: Addison-Wesley, in press.

Rohrlich, Fritz; and Jauch, J. M. *The Theory of Photons and Electrons*. 2d ed., rev. New York: Springer-Verlag, 1976.

Russell-Hunter, W. D. *A Life of Invertebrates*. New York: Macmillan, 1979.

Wessel, Gunter K. "Maser Amplifiers." In *Electronics Engineer's Handbook*, 2d ed., edited by Donald G. Fink. New York: McGraw-Hill, in press.

Work in Progress

Tej K. Batia, professor of Hindi and linguistics, is preparing a 200-page volume on the Punjabi language for the *Lingua Descriptive Series*. The series is intended to serve eventually as a complete encyclopedia for linguists and will be published by the journal *Lingua* in the Netherlands. Three series volumes a year are planned. Professor Bhatia's work will appear in 1983.

As chairperson of a committee emerging from a workshop in South Asian language-instruction programs, Professor Bhatia is also collecting and helping to develop standardized proficiency tests in the Hindi language.

Professor **Marta L. Dosa** of the School of Information Studies has been conducting research on the flow of information in cross-disciplinary areas. Two projects have been developed: one investigates information transfer via a prototype decentralized network of health professionals and institutions; the other, through a centralized model mechanism, disseminates information for human-service professionals helping the elderly. Professor Dosa has been working with Professors **B. K. Genova** and **Michael J. McGill** from Information Studies and Ms. **Stephanie Ardito Kirkland** from the All-University Gerontology Center.