

discusses the interpretation of accumulations of terrestrial vertebrate remains, including paleoanthropological implications. The next four chapters are devoted to diagenetic phases associated with fossilization—pyrites and carbonates (Canfield and Raiswell), phosphates (Lucas and Prévot), and silica (Carson). The final chapter of the book is a discussion by Speyer and Brett of interactions among taphonomic processes (background vs. episodic sedimentary phenomena) based on "taphofacies" identified in New York state. A 14-page subject index completes the book.

—KATHERINE LIVINGSTON

The Growth and Decay of Ice. G. S. H. LOCK. Cambridge University Press, New York, 1991. xviii, 434 pp., illus. \$100. Studies in Polar Research.

This book considers both the growth and the decay of ice in varied settings. The first chapter includes some poetry as well as discussions of ice in the heavens, the ice ages, the incidence of ice on the earth's surface, and the human response to ice. Next come accounts of the thermodynamics of ice and the Stefan problem that include, in

addition to the classical laws and basic principles, subjects such as metastability and the freezing point, nucleation and interfacial conditions, and numerical techniques. There follow four chapters that examine subject areas that Lock refers to as hydroglaciology, aeroglaciology, geoglaciology, and bioglaciology. Again the topics covered are highly varied: the formation and growth of lake and sea ice, effects of forced convection, freezing inside cavities and conduits, the formation of snow crystals, hailstones and hoar frost, sea spray and airborne icing and rime, frost penetration, the thermal regime of glaciers and ice sheets, the growth of nalds, the freezing of pore water in soils, permafrost, pingos, ice biota, the freezing of plasma, cryosurgery, and frozen food. The book concludes with a short chapter on the decay and melting of ice, which have received much less attention in the technical literature. The discussion presupposes some working knowledge of the principles of heat and mass transfer. The author is a mechanical engineer, and the book is stronger on the more formal and applied heat and mass transfer aspects of the subject matter than on their broader significance.—W. F. WEEKS, *University of Alaska, Fairbanks*

Books Received

Animal Models in Psychiatry, 1. Alan A. Boulton, Glen G. Baker, and Mathew T. Martin-Iverson, Eds. Humana, Clifton, NJ, 1991. xx, 411 pp., illus. \$89.50. Neuromethods, vol. 18.

The Application of Charge Density Research to Chemistry and Drug Design. George A. Jeffrey and Juan F. Piniella, Eds. Plenum, New York, 1991. xii, 409 pp., illus. \$110. NATO Advanced Science Institutes Series B, vol. 250. From a meeting, Costa Brava, Spain, April 1990.

The Archaeology Handbook. A Field Manual and Resource Guide. Bill McMillon. Wiley, New York, 1991. xii, 259 pp., illus. Paper, \$14.95.

The Archaeology of Inequality. Randall H. McGuire and Robert Paynter, Eds. Blackwell, Cambridge, MA, 1991. x, 295 pp., illus. Paper, \$19.95. Social Archaeology.

Atlas of Sponge Morphology. Atlas de Morphologie des Eponges. Louis De Vos et al. Smithsonian Institution Press, Washington, DC, 1991. xii, 177 pp., illus. \$35.

Atmospheric Data Analysis. Roger Daley. Cambridge University Press, New York, 1991. xiv, 457 pp., illus. \$79.50. Cambridge Atmospheric and Space Science Series, 2.

Atomic Dynamics in Liquids. N. H. March and M. P. Tosi. Dover, New York, 1991. x, 330 pp., illus. Paper, \$8.95. Reprint, 1976 ed.

Bioprocessing. Owen P. Ward. Van Nostrand Reinhold, New York, 1991. x, 198 pp., illus. \$52.95.

Bose Algebras. The Complex and Real Wave Representations. Torben T. Nielsen. Springer-Verlag, New York, 1991. vi, 139 pp., illus. Paper, \$16. Lecture Notes in Mathematics, 1472.

Bryozoaires Actuels et Fossiles. Bryozoa Living and Fossil. Françoise P. Bigey, Ed. Société des Sciences Naturelles de l'Ouest de la France, Nantes, 1991. xiv, 599 pp., illus. Paper, \$150. From a conference, Paris, July 1989. *Bulletin of the Society, Mémoire* HS1.

WE'LL SHIP YOUR OLIGO IN 48 HOURS, OR WE'LL EAT THE NEXT ONE.

You get your primer or probe on time, or you get your next one for free. No questions, no quibbles. For \$5.00 a base (and \$20 setup charge), you'll receive a research-ready, cartridge-purified product, complete with PAGE gel pedigree. And you'll get it on time, or



we'll be eating more
than our words. GENOSYS

Special Offer! Return this coupon for more information, and get a free knife and pen set with your first order.

Name _____ Title _____
Institution/Company _____
Address _____
City _____ State _____ Zip _____
Telephone _____

Genosys Biotechnologies, Inc. 8701A New Trails Drive, The Woodlands, Texas 77381-4241
Phone: (713) 363-3693 (800) 2345-DNA Fax: (713) 363-2212

INTERNATIONAL CONFERENCE

September 8–11, 1992

Brookhaven National Laboratory
Upton, L.I., NY 11973 U.S.A.

MICROBIAL ENHANCED OIL RECOVERY (MEOR)

Sponsored by the U.S. Dept. of Energy
CALL FOR PAPERS*

Conference will focus on:

Progress in exploring new applications of microbial/biochemical processes in MEOR and other oil field related problems.

New awareness and latest MEOR achievements.

\$450 registration fee payable in advance. Registration includes: four nights on-site housing, conference proceedings, morning/mid-day breaks, lunches, banquet, buffet dinner, and a boat tour of Manhattan/lunch.

\$250 registration fee includes all above with exception of on-site housing and tour of Manhattan.

For further information, please contact:

Dr. Eugene T. Premuzic
Department of Applied Science
Brookhaven National Laboratory
Upton, L.I., New York 11973
FAX: (516) 282-2060

*Due to restricted time and space, early response and registration is suggested. Acceptance of papers and registration will be completed by Mar. 1, 1992.

Circle No. 2 on Readers' Service Card

- The Burning Island.** A Journey through Myth and History in Volcano Country, Hawai'i. Pamela Frierson. Sierra Club Books, San Francisco, CA, 1991. xvi, 267 pp., illus. \$22.50.
- The Business of Biotechnology.** From the Bench to the Street. R. Dana Otto *et al.* Butterworth-Heinemann, Stoneham, MA, 1991. xxi, 369 pp., illus. \$54.95.
- Children's Interpersonal Trust.** Sensitivity to Lying, Deception, and Promise Violations. Ken J. Rotenberg, Ed. Springer-Verlag, New York, 1991. viii, 172 pp., illus. \$49.
- Classical Topology and Quantum States.** A. P. Balachandran *et al.* World Scientific, Teaneck, NJ, 1991. xviii, 358 pp. \$52.
- Cognitive Microgenesis.** A Neuropsychological Perspective. Robert E. Hanlon, Ed. Springer-Verlag, New York, 1991. xx, 323 pp., illus. \$79. Springer Series in Neuropsychology.
- Cold Spring Harbor Symposia on Quantitative Biology.** Vol. 55, The Brain. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1990. xxiv, 1082 pp., illus. Paper, \$55. From a symposium, Cold Spring Harbor.
- Comparative Dosimetry of Radon in Mines and Homes.** Panel on Dosimetric Assumptions Affecting the Application of Radon Risk Estimates, National Research Council. National Academy Press, Washington, DC, 1991. xii, 244 pp., illus. \$29.95.
- Computed Tomography and Magnetic Resonance of the Thorax.** David P. Naidich *et al.* 2nd ed. Raven, New York, 1991. xvi, 606 pp., illus. \$125.
- Consumer Guide to Solar Energy.** Easy and Inexpensive Applications for Solar Energy. Scott Sklar and Kenneth G. Sheinkopf. Bonus Books, Chicago, IL, 1991. xviii, 181 pp., illus. Paper, \$8.95.
- Cosmology and Particle Physics.** David Linkley, Edward W. Kolb, and David N. Schramm, Eds. American Association of Physics Teachers, College Park, MD, 1991. iv, 172 pp., illus. Paper, \$16. Twenty-one reprinted articles.
- Design Theory and Computer Science.** Processes and Methodology of Computer Systems Design. Subrata Dasgupta. Cambridge University Press, New York, 1991. xx, 428 pp., illus. \$59.50. Cambridge Tracts in Theoretical Computer Science.
- The Development and Evolution of Butterfly Wing Patterns.** H. Frederik Nijhout. Smithsonian Institution Press, Washington, DC, 1991. xvi, 297 pp., illus. \$45; paper, \$20. Smithsonian Series in Comparative Evolutionary Biology.
- Dictionary of Plants Containing Secondary Metabolites.** J. S. Glasby. Taylor and Francis, Philadelphia, PA, 1991. vi, 488 pp. \$199.
- Directors of Development.** Influences on the Development of Children's Thinking. Lynn Okagaki and Robert J. Sternberg, Eds. Erlbaum, Hillsdale, NJ, 1991. xii, 301 pp. \$59.95; paper, \$29.95.
- Dynamical Systems.** Collection of Papers. Ya. G. Sinai, Ed. World Scientific, Teaneck, NJ, 1991. x, 673 pp., illus. \$82; paper, \$48. Advanced Series in Nonlinear Dynamics, vol. 1.
- Electron Transfer in Inorganic, Organic, and Biological Systems.** J. Amers R. Bolton, Noboru Mataga, and George McLendon, Eds. American Chemical Society, Washington, DC, and Canadian Society for Chemistry, Ottawa, 1991. viii, 296 pp., illus. \$89.95. Advances in Chemistry Series, 228. CSC Symposium Series, 2. From a symposium, Honolulu, HI, Dec. 1989.
- Emerging Technologies in Hazardous Waste Management II.** D. William Tedder and Frederick G. Pohland, Eds. American Chemical Society, Washington, DC, 1991. x, 444 pp., illus. \$89.95. ACS Symposium Series, 468. Based on a symposium, Atlantic City, NJ, June 1990.
- Enzymes in Carbohydrate Synthesis.** Mark D. Bednarski and Ethan S. Simon, Eds. American Chemical Society, Washington, DC, 1991. xii, 131 pp., illus. \$34.95. Based on a symposium, Boston, MA, April 1990. ACS Symposium Series, 466.
- The Exploratorium Science Snackbook.** Exploratorium Teacher Institute. Exploratorium, San Francisco, CA, 1991. viii, 107 pp., illus. \$19.95.
- Foundations of Ecology.** Classic Papers with Commentaries. Leslie A. Real and James H. Brown, Eds. Published in association with the Ecological Society of America by University of Chicago Press, Chicago, IL, 1991. xiv, 905 pp., illus. \$70; paper, \$27.50.
- From Caveman to Chemist.** Circumstances and Achievements. Hugh W. Salzberg. American Chemical Society, Washington, DC, 1991. xx, 294 pp., illus. \$24.95; paper, \$14.95.
- From Egg to Embryo.** Regional Specification in Early Development. 2nd ed. J. M. W. Slack. Cambridge University Press, New York, 1991. xx, 328 pp., illus. \$75; paper, \$32.50. Developmental and Cell Biology Series, 26.
- From the Retina to the Neocortex.** Selected Papers of David Marr. Lucia Vaina, Ed. Birkhäuser, Boston, 1991. vii, 330 pp., illus. \$49.
- Fuel Homeostasis and the Nervous System.** Mladen Vranic, Suad Efendic, and Charles H. Hollenberg, Eds. Plenum, New York, 1991. x, 278., illus. \$72.50. Advances in Experimental Medicine and Biology, vol. 291.
- Granular Nanoelectronics.** David K. Ferry, John R. Barker, and Carlo Jacoboni, Eds. Plenum, New York, 1991. xii, 590 pp., illus. \$135. NATO Advanced Science Institutes Series B, vol. 251. From a meeting, Il Ciocco, Italy, July-Aug. 1990.
- Graph Theory.** Flows, Matrices. Béla Andrásfai. Hilger, New York, 1991. x, 280 pp., illus. \$80. Translated from the Hungarian.
- Great Mambo Chicken and the Transhuman Condition.** Science Slightly over the Edge. Ed Regis. Addison-Wesley, Reading, MA, 1991. viii, 308 pp. Paper, \$8.95. Reprint, 1990 ed.
- Group Theoretical Methods in Physics.** V. V. Dodonov and V. I. Man'ko, Eds. Springer-Verlag, New York, 1991. xviii, 601 pp., illus. \$98. Lecture Notes in Physics, 382. From a colloquium, Moscow, June 1990.
- Growth and Hyperplasia of Cardiac Muscle Cells.** Pavel P. Rumyantsev. Bruce M. Carlson, Ed. Harwood Academic, New York, 1991. xiv, 376 pp., illus. \$90. Soviet Medical Reviews, Supplement Series, Cardiology. Translated from the Russian by K. A. Gindina.
- Intersection and Decomposition Algorithms for Planar Arrangements.** Pankaj K. Agarwal. Cambridge University Press, New York, 1991. xviii, 277 pp., illus. \$39.50.
- An Introduction to Biophysics.** With Medical Orientation. G. Rontó and I. Tarján, Eds. Akadémiai Kiadó, Budapest, 1991. 443 pp., illus., + plates. \$52.
- Introduction to Mechanical Reliability.** A Designer's Approach. Oleg Vinogradov. Hemisphere (Taylor and Francis), New York, 1991. x, 142 pp., illus. \$49.50.
- Introduction to Neural and Cognitive Modeling.** Daniel S. Levine. Erlbaum, Hillsdale, NJ, 1991. xiv, 439 pp., illus. \$79.95; paper, \$19.95.
- Introduction to Polymers.** R. J. Young and P. A. Lovell. 2nd ed. Chapman and Hall (Routledge, Chapman and Hall), New York, 1991. x, 443 pp., illus. \$75.
- Introduction to the Physics of the Earth's Interior.** Jean-Paul Poirier. Cambridge University Press, New York, 1991. x, 264 pp., illus. \$69.50. Cambridge Topics in Mineral Physics and Chemistry, 3.
- Microbial Production and Consumption of Greenhouse Gases.** Methane, Nitrogen Oxides, and Halomethanes. John Rogers and William B. Whitman, Eds. American Society for Microbiology, Washington, DC, 1991. \$64; to ASM members, \$49. Based on workshop, Athens, GA, Nov. 1989.
- Modern Concepts of Insulin-Like Growth Factors.** E. Martin Spencer, Ed. Elsevier, New York, 1991. xvi, 748 pp., illus. \$135. From a symposium, San Francisco, CA, Jan. 1991.
- Molecular Cell and Biophysics.** Ralph J. Nossal and Harold Lecar. Addison-Wesley, Reading, MA, 1991. xii, 387 pp., illus. \$45.25.
- Monoclonal Antibodies, Cytokines, and Arthritis.** Mediators of Inflammation and Therapy. Thomas F. Kresina, Ed. Dekker, New York, 1991. xvi, 517 pp., illus. \$150. Inflammatory Disease and Therapy Series.
- Motivation and Action.** Heinz Heckhausen. Springer-Verlag, New York, 1991. ix, 504 pp., illus. Paper, \$44.50. Translated from the German edition by Peter K. Leppmann, (Mugich, 1988).
- Nonequilibrium Phenomena in Polyatomic Gases.** Vol. 2, Cross Sections, Scattering, and Rarefied Gases. Frederick R. W. McCourt *et al.* Clarendon (Oxford University Press), New York, 1991. xxviii pp. + pp. 563-881, illus. \$80. International Series of Monographs on Chemistry, 19. Oxford Science Publications.
- Nonlinear Problems in Relativity and Cosmology.** J. Robert Buchler, Steven L. Detweiler, and James R. Ipser, Eds. New York Academy of Sciences, New York, 1991. viii, 263 pp., illus. \$75. Annals of the New York Academy of Sciences, vol. 631. From a workshop, Gainesville, FL, Oct. 1990.
- Nonmonotonic Reasoning: Logical Foundations of Commonsense.** Gerhard Brewka. Cambridge University Press, New York, 1991. xiv, 168 pp., illus. \$34. Cambridge Tracts in Theoretical Computer Science, 12.
- Nuclear Hormone Receptors.** Molecular Mechanisms, Cellular Functions, Clinical Abnormalities. Malcolm G. Parker, Ed. Academic Press, San Diego, CA, 1991. xviii, 404 pp., illus. \$95.
- The Numerical Method of Lines.** Integration of Partial Differential Equations. W. E. Schiesser. Academic Press, San Diego, CA, 1991. xiv, 326 pp., illus. \$69.95.
- Physiological Strategies for Gas Exchange and Metabolism.** A. J. Woakes, M. K. Grieshaber, and C. R. Bridges, Eds. Cambridge University Press, New York, 1991. xiv, 266 pp., illus. \$75. Society for Experimental Biology Seminar Series, 41. Based on two symposia, Baton Rouge, LA, Aug. 1988.
- Plasticity of Development.** Steven E. Brauth, William S. Hall, and Robert J. Dooling, Eds. MIT Press, Cambridge, MA, 1991. xii, 182 pp., illus. \$29.95. A Bradford Book, Lectures by J. Kagan, S. J. Suomi, S. Scarr, P. J. Kuhl, P. Marler, and P. Rakic.
- Polymeric Drugs and Drug Delivery Systems.** Richard L. Dunn and Raphael M. Ottenbrite, Eds. American Chemical Society, Washington, DC, 1991. xii, 314 pp., illus. \$74.95. ACS Symposium Series, 469. From a symposium, Washington, DC, Aug. 1990.
- Powder Surface Area and Porosity.** S. Lowell and Joan E. Shields. 3rd ed. Chapman and Hall (Routledge, Chapman and Hall), New York, 1991. xii, 250 pp., illus. \$89.95. Powder Technology Series.
- Representations of Finite Groups of Lie Type.** François Digne and Jean Michel. Cambridge University Press, New York, 1991. xviii, 157 pp., illus. \$44.50; paper, \$17.95. London Mathematical Society Student Texts, vol. 21.
- Rickets.** Francis H. Glorieux, Ed. Raven, New York, 1991. xviii, 285 pp., illus. \$55. Nestlé Nutrition Workshop Series, vol. 21. Based on a workshop, Buenos Aires, Dec. 1988.
- The Rise of Gunbelt.** The Military Remapping of Industrial America. Ann Markusen *et al.* Oxford University Press, New York, 1991. xiv, 341 pp., illus. \$35.
- Risk Management.** Expanding Horizons in Nuclear Power and Other Industries. Ronald A. Knief *et al.*, Eds. Hemisphere (Taylor and Francis), Philadelphia, PA, 1991. xii, 269 pp., illus. \$49.50. From a symposium, Whippany, NJ, Sept. 1989.
- Smoking, Personality, and Stress.** Psychosocial Factors in the Prevention of Cancer and Coronary Heart Disease. H. J. Eysenck. Springer-Verlag, New York, 1991. x, 130 pp., illus. \$29.
- Social Justice in Human Relations.** Vol. 2, Societal and Psychological Consequences of Justice and Injustice. Herman Steensma and Riel Vermunt, Eds. Plenum, New York, 1991. xvi, 290 pp., illus. \$49.50. Critical Issues in Social Justice. From a conference, Leiden, Netherlands, 1986.
- Statistical Field Theory.** Claude Itzykson and Jean-Michel Drouffe. Cambridge University Press, New York, 1991. 2 Vols. Vol. 1, From Brownian Motion to Renormalization and Lattice Gauge Theory. xvi pp. + pp. 1-404, illus., + index. \$24.95. Vol. 2, Strong Coupling, Monte Carlo Methods, Conformal Field Theory, and Random Systems. xvi pp. + pp. 405-810, illus., + index. \$24.95. Cambridge Monographs on Mathematical Physics. Reprint, 1989 ed.
- Statistical Inference in Stochastic Processes.** N. W. Prabhu and I. V. Basawa, Eds. Dekker, New York, 1991. x, 276 pp., illus. \$45. Probability, Pure and Applied, 6.
- Stochastic Models in Queueing Theory.** J. Medhi. Academic Press, San Diego, CA, 1991. xiv, 443 pp. \$63.50.
- Studies on Large Branchioid Biology and Aquaculture.** D. Belk, H. J. Dumont, and N. Munuswamy, Eds. Kluwer, Boston, MA, 1991. xii, 288 pp., illus. \$275. Based on a symposium, Ghent, Belgium, Aug. 1989. *Developments in Hydrobiology*, 64. Reprinted from *Hydrobiologia*, vol. 212.
- Thermodynamic and Optical Properties of Plasma, Metals, and Dielectrics.** Yu. S. Protasov *et al.*, Eds. Hemisphere (Taylor and Francis), New York, 1991. xii, 407 pp. \$85.
- The Three-Pound Universe.** Judith Hooper and Dick Teresi. Tarcher, Los Angeles, CA, 1991. xxii, 410 pp., illus. Paper, \$14.95. Reprint, 1986 ed.
- Toward Stability.** A Plan for Collaborative Research on Agriculture and Natural Resource Management. Panel for Collaborative Research Support for AID's Sustainable Agriculture and Natural Resource Management Program, National Research Council. National Academy Press, Washington, DC, 1991. xiv, 145 pp. Paper, \$19.
- Towards Human Work.** Solutions to Problems in Occupational Health and Safety. M. Kumashiro and E. D. Megaw, Eds. Taylor and Francis, Philadelphia, PA, 1991. xii, 426 pp., illus. \$91. From a symposium, Kitakyushu, Japan, July 1990.
- Tropical Pasture Utilisation.** L. R. Humphreys. Cambridge University Press, 1991. xii, 206 pp., illus. \$75.