725 This Week in Science

Editorial
727 Retroactive Prophets

Perspective
729 The Evolution of Catalytic Function: P. A. SHARP AND D. EISENBERG

Letters

News & Comment
741 Safety of DOE Reactors Questioned
742 Document Links NSF Official to Biotech Firm
743 OECD to Set Rules for International Science
744 Doctors Square Off on Employee Drug Testing
745 Yale Takes Action Against Psychiatrists for Financial Improprieties
746 New Look at Health in Developing Nations
747 A Frustrating Glimpse of the True AIDS Epidemic
748 NSF Lends a Hand with DOD Award
749 Why Is Calculus Such a Hurdle?
Briefing: China Renews Pledge to Boost Basic Research ■ New Vice President and Trustee Named at Hughes

Research News
750 Flap Arises Over Genetic Map
752 Ecological Invasions Offer Opportunities
754 Nobel Prize for Theory of Economic Growth

Articles
757 Cumulative Impacts of Oil Fields on Northern Alaskan Landscapes:
D. A. WALKER, P. J. WEBBER, E. F. BINNIAN, K. R. EVERETT, N. D. LEDERER,
E. A. NORDSTRAND, M. D. WALKER
761 Millisecond Pulsar PSR 1937+21: A Highly Stable Clock: L. A. RAWLEY,
J. H. TAYLOR, M. M. DAVIS, D. W. ALLAN
765 Molecular Genetics: Applications to the Clinical Neurosciences: J. B. MARTIN

Research Articles
773 Left-Handed DNA in Vivo: A. JAWORSKI, W.-T. HSIH, J. A. BLAHO,
J. E. LARSON, R. D. WELLS

Reports
778 Dynamics of Automatic and Controlled Visual Attention: E. WEICHELGARTNER
AND G. SPERLING
780 Mechanism of the Body-Centered Cubic–Hexagonal Close-Packed Phase Transition in Iron: W. A. BASSETT AND E. HUANG

786 New Routes to Early Memories: D. KUCHARSKI and W. G. HALL

788 A Novel Thyroid Hormone Receptor Encoded by a cDNA Clone from a Human Testis Library: D. BENBROOK and M. PFahl

791 Early Restriction of the Human Antibody Repertoire: H. W. SCHROEDER, JR., J. L. HILLSON, R. M. PERLMUTTER

794 Molecular Dynamics of a Cytochrome c-Cytochrome b5 Electron Transfer Complex: J. J. WENDOLOSKI, J. B. MATTHEW, P. C. WEBER, F. R. SALEMME

797 A Nerve Growth Factor–Induced Gene Encodes a Possible Transcriptional Regulatory Factor: J. MILBRANDT

800 Cytokine-Induced Expression of HIV-1 in a Chronically Infected Promonocyte Cell Line: T. M. FOLKS, J. JUSTEMENT, A. KINTER, C. A. DINARDELLO, A. S. FAUCI

802 Biological Invasion by Myxococcus Volvulus Alters Ecosystem Development in Hawaii: P. M. VITOUSEK, L. R. WALKER, L. D. WHITEAKER, D. MUELLER-DOMBOIS, P. A. MATSON

804 Discovery of Transposable Element Activity Among Progeny of Tissue Culture–Derived Maize Plants: V. M. PESCHKE, R. L. PHILLIPS, B. G. GENGENBACH

AAAS News

813 Scientists and Lawyers Look at Fraud in Science: JOAN WRATHER ■ D. C. Members—TV and Radio Reviewers Needed ■ Deng Pufang and Delegation Meet Disabled Scientists ■ Africa Initiative Funded ■ Meetings to Focus on Science and Technology in the Caribbean ■ Congressional and Diplomacy Fellows Begin Year in Washington ■ Obituaries

AAAS Meetings

817 1988 AAAS Annual Meeting: Preliminary Program ■ Seminars ■ Meeting Information ■ Advance Registration and Housing Registration Forms

Book Reviews

831 Klaus Fuchs and Klaus Fuchs, Atom Spy, reviewed by R. BOTHWELL ■ Foraging Theory, G. H. PYKE ■ What the Hands Reveal about the Brain, P. MENTUK ■ The Archaeology of Animals, K. CRUZ-URIBE ■ Books Received

Products & Materials

836 Liquid Media and Salt Solutions ■ Chest Freezer ■ Nonlinear Least-Squares Curve-Fitting Software ■ Cell Separation Particles ■ Removable Large-Capacity Data Storage ■ 3-D Molecule Images on PCs ■ Image-Processing Software ■ Literature