
SCIENCE

Index to Volume 185
July – September 1974

Editorial Board

ALFRED BROWN	DONALD LINDSLEY
JAMES F. CROW	RUTH PATRICK
HERBERT S. GUTOWSKY	FRANK PRESS
N. BRUCE HANNAY	FRANK W. PUTNAM
DONALD KENNEDY	MAXINE F. SINGER
SEYMOUR S. KETY	RAYMOND H. THOMPSON
DANIEL E. KOSHLAND, JR.	GORDON WOLMAN

Editorial Staff

PHILIP H. ARELSON <i>Editor</i>	HANS NUSSBAUM <i>Business Manager</i>
------------------------------------	--

EARL J. SCHERAGO, *Advertising Director*

Published by the
American Association for the Advancement of Science
1515 Massachusetts Avenue, NW, Washington, D.C. 20005

Printed in Washington, D.C., by McCall Printing Company, Mid-Atlantic Division
Copyright 1974 by the American Association for the Advancement of Science

<i>No.</i>	<i>Date of Issue</i>	<i>Pages</i>	<i>No.</i>	<i>Date of Issue</i>	<i>Pages</i>
4145	5 July	1-84	4152	23 August	637-728
4146	12 July	85-200	4153	30 August	729-804
4147	19 July	201-292	4154	6 September	805-880
4148	26 July	293-392	4155	13 September	881-988
4149	2 August	393-468	4156	20 September	989-1088
4150	9 August	469-560	4157	27 September	1089-1200
4151	16 August	561-636			

The names of authors of books reviewed are in SMALL CAPITALS.

A

- AAAS: retrospect and prospect (*editorial*), W. Bevan, 107
- Abelson, P. H. (*Editorials*): The deteriorating energy position, 309; Hemispheric cooperation in science, 485; Mr. Ford and science policy, 651; Two digit inflation, 1005
- Abortion, illegitimacy, and the American birth rate, J. Sklar and B. Berkov, 909
- Absence of REM rebound after barbiturate withdrawal, I. Feinberg *et al.*, 534
- Acetylcholine noise: analysis after chemical modification of receptor, E. M. Landau and D. Ben-Haim, 944
- Adams, R. McC.: *book review* of Archaeological researchers in retrospect, 849
- Adler, N. *See* Silberberg, A.
- Adrenergic innervation of the parasympathetic ciliary ganglion in the chick, D. Cantino and E. Mugnaini, 279
- Agglomerularism in Antarctic fish, G. H. Dobbs, III, *et al.*, 793
- Ahlen, J. W. *See* Chapman, S., *et al.*
- AHMADJIAN, V., and M. E. HALE (Eds.), The lichens, *book review* of, 53
- Air quality control (*letter*), R. J. Bibbero, 568
- Airships (*letter*), T. P. Bond, 1109
- Alaskan arctic tundra, M. E. BRITTON (Ed.), *book review* by L. C. Bliss, 935
- Allen, A. D., *et al.*: Computer music (*letters*), 304
- Allen, N. *See* Mendell, J. R., *et al.*
- Amino acid difference formula to help explain protein evolution, R. Grantham, 862
- Ammirati, J.: Mushroom poisoning (*letter*), 1001
- Ammonia flux into the atmosphere from a grazed pasture, O. T. Denmead *et al.*, 609
- Amphetamine effects in man: paradoxical drowsiness and lowered electrical brain activity (CNV), J. J. Tecce and J. O. Cole, 451
- Analogy as a source of knowledge, K. Z. Lorenz, 229
- Analysis of vertebrate structure, M. HILDEBRAND, *book review* by C. Gans, 138
- Anderson, J. D. *See* Howard, H. T., *et al.*
- Andrews, P. W. *See* Brooks, D. B.

- Anemia in domestic cats: effect on hemoglobin components and whole blood oxygenation, A. G. Mauk *et al.*, 447
- Ankerl, G., *et al.*: Scientific methods in ethology (*letters*), 814
- Anthropology applied to health programs (*meeting report*), A. J. Rubel, 545
- Antibody to leukemia virus: widespread occurrence in inbred mice, R. C. Nowinski and S. L. Kaehler, 869
- Archaeological researches in retrospect, G. R. WILLEY (Ed.), *book review* by R. McC. Adams, 849
- Arene oxides: a new aspect of drug metabolism, D. M. Jerina and J. W. Daly, 573
- Armand, J.-P. *See* Segelman, A. B., *et al.*
- Arms, K.: Unfettered mother (*letter*), 9
- Arms, K., *et al.*: Sodium: stimulus for puddling behavior by tiger swallowtail butterflies, *Papilio glaucus*, 372
- Arnauld, E., *et al.*: Firing patterns of hypothalamic supraoptic neurons during water deprivation in monkeys, 535
- Arnold, W., *et al.*: Photochemical activity of single chloroplasts recorded by the use of nuclear track emulsion, 59
- Asbestiform amphibole minerals: detection and measurement of high concentrations in municipal water supplies, P. M. Cook *et al.*, 853
- Asbridge, J. R. *See* Ogilvie, K. W., *et al.*
- Aschkenase, L. J. *See* Quimby, K. L., *et al.*
- Assembly of chick brain tubulin onto isolated basal bodies of *Chlamydomonas reinhardtii*, W. J. Snell *et al.*, 357
- Association Affairs: AAAS annual meeting, 1150; Science and the quality of life, 1149
- Atalla, R. H., and S. C. Nagel: Cellulose: its regeneration in the native lattice, 522
- Atkins, L., *See* Ladda, R., *et al.*
- Atomic images by electron-wave holography, L. S. Bartell and C. L. Ritz, 1163
- Attempt to date early South African hominids by using fission tracks in calcite, D. MacDougall and P. B. Price, 943
- Atz, J. W.: *book review* of Genetics and mutagenesis of fish, 608
- Auburn, F. M.: Convention for preservation of man's cultural heritage in the oceans, 763
- Auditory membrane vibrations: measurements at sub-angstrom levels by optical heterodyne spectroscopy, P. R. Dragsten *et al.*, 55
- Avers, C. J. *See* Grimes, G. W., *et al.*
- Axelrod, J. *See* Saavedra, J. M., *et al.*
- Azzi, J. *See* Arnold, W., *et al.*

B

- Bach, M. L. *See* Ballou, B., *et al.*
- Bacterial membranes and walls, L. LEIVE (Ed.), *book review* by D. L. Tipper and G. G. Khachatourians, 779
- Bacterial plasmids, G. G. MEYNELL, *book review* by J. A. Wohlhieter, 780
- Bakus, G. J., and G. Green: Toxicity in sponges and holothurians: a geographic pattern, 951
- Balachandran, N. K. *See* Donn, W. L.
- Baldo, B. A. *See* Fletcher, T. C.
- Ballou, B., *et al.*: Chloral hydrate: a solvent for biological membranes, 531
- Baltimore, D. *See* Berg, P., *et al.*
- Bame, S. J. *See* Ogilvie, K. W., *et al.*
- Banta, W. C., *et al.*: Bryozoan monticules: excurrent water outlets?, 783
- Barash, D. P.: The evolution of marmot societies: a general theory, 415; Neighbor recognition in two "solitary" carnivores: the raccoon (*Procyon lotor*) and the red fox (*Vulpes fulva*), 794
- Barley stripe mosaic virions associated with spindle microtubules, D. E. Mayhew and T. W. Carroll, 957
- Bartell, L. S., and C. L. Ritz: Atomic images by electron-wave holography, 1163
- Bass, W. M.: *book review* of The Pacific Islanders and The people of America, 850
- Bassiri, R. M. *See* Brownstein, M. J., *et al.*
- Basu, A. R. *See* MacGregor, I. D.
- Baukal, A. *See* Glossmann, H., *et al.*
- Baum, W. M.: Choice in free-ranging wild pigeons, 78
- BECKER, J., Depression, *book review* of, 433
- Becker, W. M. *See* Geison, G. L., *et al.*
- Behannon, K. W. *See* Ness, N. F., *et al.*
- Behavior modification (*letter*), B. F. Skinner, 813
- Behavioral regulation of the milieu interne in man and rat, J. Garcia *et al.*, 824
- BELLAIRS, R., and E. G. GRAY (Eds.), Essays on the nervous system, *book review* of, 1160
- BELLAMY, D. J. *See* MOORE, P. D.
- Belton, M. J. S. *See* Broadfoot, A. L., *et al.* *See also* Murray, B. C., *et al.*
- Ben-Haim, D. *See* Landau, E. M.
- Bendich, A. *See* Coppleson, M., *et al.*
- Benesch, R., and R. E. Benesch: Homos and heteros among the hemos, 905
- Benesch, R. E. *See* Benesch, R.
- Berg, P., *et al.*: Potential biohazards of recombinant DNA molecules (*letter*), 303
- Bergner, L.: Humane "weapons" (*letter*), 304
- Berkov, B. *See* Sklar, J.
- Berner, R. A. *See* Martens, C. S.
- Bernhard, H. P. *See* Darlington, G. W., *et al.*
- Bers, L.: Imprisoned Soviet mathematicians (*letter*), 735
- Beta decay and muon capture, M. MORITA, *book review* by B. R. Holstein, 248
- Bevan, W.: AAAS: retrospect and prospect (*editorial*), 107
- Beveling of fine micropipette electrodes by a rapid precision method, K. T. Brown and D. G. Flaming, 693
- Bever, M. B.: Raw materials: energy and environmental constraints (*letter*), 99
- Bever, T. G., and R. J. Chiarello: Cerebral dominance in musicians and non-musicians, 537
- Beyer, J. *See* Miyake, A.
- Bezdek, R., and B. Hannon: Energy, manpower, and the highway trust fund, 669
- Bhandari, N., and J. T. Padia: Secular variations in the abundance of heavy nuclei in cosmic rays, 1043
- Bibbero, R. J.: Air quality control (*letter*), 568
- Biggley, W. H. *See* Seliger, H. H., *et al.*
- Bilder, G. E., and W. D. Denckla: Puromycin: a questionable drug for studying the mechanism of thyroid carcinogenesis in vivo, 1060
- Binder, L. I. *See* Snell, W. J., *et al.*
- Biological clocks in marine organisms, J. D. PALMER, *book review* by J. T. Enright, 521
- Biological oceanographic processes, T. R. PARSONS and M. TAKAHASHI, *book review* by J. H. Steele, 54
- Biological suppression of weeds: evidence for allelopathy in accessions of cucumber, A. R. Putnam and W. B. Duke, 370
- Biopolymers, A. G. WALTON and J. BLACKWELL, *book review* by G. D. Fasman, 851
- Black, P. H. *See* Hammond, M. E., *et al.*
- BLACKWELL, J. *See* WALTON, A. G.
- Blanchard, D. C.: References and unreferences (*letter*), 1003
- Blask, D. E. *See* Reiter, R. J., *et al.*
- Blepharone: a conjugation-inducing glycoprotein in the ciliate *Blepharisma*, A. Miyake and J. Beyer, 621
- BLIGH, J., Temperature regulation in mammals and other vertebrates, *book review* of, 688
- Bliss, L. C.: *book review* of Alaskan arctic tundra and The impact of oil resource development on northern plant communities, 935
- Bloom, F. E., *et al.*: Interpreting the failures to confirm the depression of cerebellar Purkinje cells by cyclic AMP, 627
- BLUME, S. S., Toward a political sociology of science, *book review* of, 137
- Bohlool, B. B., and E. L. Schmidt: Lectins: a possible basis for specificity in the *Rhizobium*-legume root nodule symbiosis, 269
- Bond, T. P.: Airships (*letter*), 1109
- Borenfreund, E. *See* Coppleson, M., *et al.*
- Boucot, A. J. *See* Gray, J., *et al.*
- Bowman, R. E. *See* Quimby, K. L., *et al.*
- Boyer, H. W. *See* Berg, P., *et al.*
- BRADFIELD, R. M., A natural history of associations, *book review* of, 432
- Brain catechol synthesis: control by brain tyrosine concentration, R. J. Wurtman *et al.*, 183
- Brain cells in culture: morphological transformation by a protein, R. Lim and K. Mitsunobu, 63
- Brams, E. A., and J. I. Kirkwood: International agricultural education (*letter*), 649
- Brave new world?, A. G. Motulsky, 653
- BRAY, R. J., and R. E. LOUGHHEAD, The solar chromosphere, *book review* of, 938
- Breeder reactor debate (*letters*), B. Commoner and R. Gillette, 9
- Brendel, K., *et al.*: Isolated brain microvessels: a purified, metabolically active preparation from bovine cerebral cortex, 953
- Bridge, H. S. *See* Ogilvie, K. W., *et al.*
- Briscoe, A. M.: *book review* of Successful women in the sciences and Women and success, 1040
- BRITTON, M. E. (Ed.), Alaskan arctic tundra, *book review* of, 935
- Broadfoot, A. L., *et al.*: Mercury's atmosphere from Mariner 10: preliminary results, 166
- Brooks, D. B., and P. W. Andrews: Mineral resources, economic growth, and world population, 13
- Brooks, D. E. *See* Mann, T., *et al.*
- Brown, C. A.: *book review* of Organoboranes in organic synthesis, 780
- Brown, K. T., and D. G. Flaming: Beveling of fine micropipette electrodes by a rapid precision method, 693
- Brown, M. S., and J. L. Goldstein: Expression of the familial hypercholesterolemia gene in heterozygotes: mechanism for a dominant disorder in man, 61
- Brown, W. L.: *book review* of Corn, 687
- Brownstein, M. J. *See* Saavedra, J. M., *et al.*
- Brownstein, M. J., *et al.*: Thyrotropin-releasing hormone in specific nuclei of rat brain, 267
- Brunn, D. L. *See* Howard, H. T., *et al.*
- Bryozoan monticules: excurrent water outlets?, W. C. Banta *et al.*, 783
- Bulat, M., *et al.*: 5-Hydroxyindoleacetic acid in the lumbar fluid: a specific indicator of spinal cord injury, 527
- Bunn, H. F. *See* Nienhuis, A. W.
- Burns, B. R. *See* Colton, J. B., Jr., *et al.*

C

- Cacciapuoti, A. *See* Monath, T. P., *et al.*
 Cafruny, E. J. *See* Raaf, J. H., *et al.*
 Callan, H. G.: *book review* of Cytotaxonomy and vertebrate evolution, 54
 Calothy, G. *See* Pessac, B.
 Calton, M. S., and T. E. Denton: Chromosomes of the chocolate gourami: a cytogenetic anomaly, 618
 Calvin, M. *See* Cooper, S. R.
 Cancer chemotherapy (*letter*), M. B. Shimkin, 99
 Cancer detection (*letters*), J. F. Seybolt and G. S. Duboff, 10
 Cancer research in the wrong direction? (*letter*), B. K. Nair, 646
 Cañedo, L.: Rural health care in Mexico?, 1131
 Cantino, D., and E. Mugnaini: Adrenergic innervation of the parasympathetic ciliary ganglion in the chick, 279
 Cantrell, C. D.: Uranium enrichment (*letter*), 1109
 CAPANNA, E. *See* CHIARELLI, A. B.
 Capranica, R. R. *See* Dragsten, P. R., *et al.*
 Carlson, E. C. *See* Brendel, K., *et al.*
 Carpenter, D. O. *See* Saavedra, J. M., *et al.*
 Carroll, T. W. *See* Mayhew, D. E.
 Carruthers, G. R. *See* Opal, C. B., *et al.*
 Carstens, P. *See* Pirkle, H.
 Carter, L. J. (*News and Comment*): aldrin manufacture is suspended by the Environmental Protection Agency, 601; Council on Environmental Quality and Warm Spring dam, 679; energy bureaucracy, 44; EPA study, 678; Ford in the White House, 764; Law of the Sea Conference, 336; strip mining, 513; Trident challenged by lawsuit, 928. *See also* Joseph, J.
 ——— and R. Gillette (*News and Comment*): arms control groups denounce summit treaty, 420
 CARTER, W. A. (Ed.), Selective inhibitors of viral functions, *book review* of, 344
 Casserly, J. J.: Confidentiality (*letter*), 814
 Cation dependence of high-affinity angiotensin II binding to adrenal cortex receptors, H. Glossmann *et al.*, 281
 Catravas, G. N. *See* Teitelbaum, H., *et al.*
 Catt, K. J. *See* Glossmann, H., *et al.*
 Cavness, C. *See* Feinberg, I., *et al.*
 Cellulose: its regeneration in the native lattice, R. H. Atalla and S. C. Nagel, 522
 Centric fusion, satellite DNA, and DNA polarity in mouse chromosomes, M. S. Lin and R. L. Davidson, 1179
 Cerebral dominance in musicians and non-musicians, T. G. Bever and R. J. Chiarello, 537
 CHAMBERS, R. D., Fluorine in organic chemistry, *book review* of, 937
 Chang, L. W. *See* Quimby, K. L., *et al.*
 Chanock, R. M. *See* Kapikian, A. Z., *et al.*
 Chapman, D., *et al.*: Energy and food (*letters*), 482
 Chapman, S., *et al.*: Science and public policy (*letters*), 568
 Chase, S. C., *et al.*: Preliminary infrared radiometry of the night side of Mercury from Mariner 10, 142
 Chemical messengers in development: a hypothesis: D. McMahon, 1012
 Chemistry and enzymology of k_{cat} inhibitors, R. R. Rando, 320
 CHIARELLI, A. B., and E. CAPANNA (Eds.), Cytotaxonomy and vertebrate evolution, *book review* of, 54
 Chiarello, R. J. *See* Bever, T. G.
 Chloral hydrate: a solvent for biological membranes, B. Ballou *et al.*, 531
 Chloride spike: a third type of action potential in tissue-cultured skeletal muscle cells from the chick, J. Fukuda, 76
 Choice in free-ranging wild pigeons, W. M. Baum, 78
 Chondrule: evidence of energetic impact unlikely, A. J. F. Vedder *et al.*, 378
 Chrisman, C. *See* Mendell, J. R., *et al.*
 Christian, J. T., and R. C. Hirschfeld: Subsidence of Venice: predictive difficulties, 1185
 Chromosomes of the chocolate gourami: a cytogenetic anomaly, M. S. Calton and T. E. Denton, 618
 Cicerone, R. J., *et al.*: Stratospheric ozone destruction by man-made chlorofluoromethanes, 1165
 CLARKE, R., Ellen Swallow, *book review* of, 1040
 Classification: purposes, principles, progress, prospects, R. R. Sokal, 1115
 Clean air by 1975? (*letter*), J. P. Lodge, 1109
 Cline, W. L. *See* Kapikian, A. Z., *et al.*
 COCKERILL, A. F. *See* SAUNDERS, W. H., JR.
 CODY, M. L., Competition and the structure of bird communities, *book review* of, 1158
 Cohen, S. N. *See* Berg, P., *et al.*
 Cole, J. O. *See* Tecce, J. J.
 Colson, E.: *book review* of A natural history of associations, 432
 Colton, J. B., Jr., *et al.*: Plastic particles in surface waters of the northwestern Atlantic, 491
 Comet Kohoutek: ultraviolet images and spectrograms, C. B. Opal *et al.*, 702
 Commoner, B., and R. Gillette: Breeder reactor debate (*letters*), 9
 Comparative vertebrate morphology, D. WEBSTER and M. WEBSTER, *book review* by C. Gans, 138
 Competition: a theory based on realistic, general equations of population growth, R. G. Wiegert, 539
 Competition and the structure of bird communities, M. L. Cody, *book review* by G. H. Orians, 1158
 Complement-dependent stimulation of prostaglandin synthesis and bone resorption, L. G. Raisz *et al.*, 789
 Computer-assisted analysis of chromosomal abnormalities: detection of a deletion in aniridia/Wilms' tumor syndrome, R. Ladda *et al.*, 784
 Computer music (*letters*), A. D. Allen *et al.*, 304
 Confidentiality (*letter*), J. J. Casserly, 814
 Conney, A. H. *See* Wood, A. W.
 Control of membrane K^+ permeability in a hyperpolarizing photoreceptor: similar effects of light and metabolic inhibitors, A. L. F. Gorman and J. S. McReynolds, 620
 Convention for preservation of man's cultural heritage in the oceans, F. M. Auburn, 763
 Convergent morphological evolution detected by studying proteins of tree frogs in the *Hyla eximia* species group, L. R. Maxson and A. C. Wilson, 66
 Cook, P. M., *et al.*: Asbestiform amphibole minerals: detection and measurements of high concentrations in municipal water supplies, 853
 Cooper, L. A.: *book review* of A psychology of picture perception, 1159
 Cooper, S. R., and M. Calvin: Solar energy by photosynthesis: manganese complex photolysis, 376
 Copper and tin, J. D. MUHLY, *book review* by M. J. Mellink, 52
 Cppleson, M., *et al.*: Interaction of sperm with somatic cells, 104
 Copyright laws (*letter*), R. D. Tanz, 735
 Corn, P. C. MANGELSDORF, *book review* by W. L. Brown, 687
 Cottrell, B. A. *See* Doolittle, R. F., *et al.*
 Counselman, C. C., III, and I. I. Shapiro: Watergate tape erasure (*letter*), 813
 Couri, D. *See* Mendell, J. R., *et al.*
 Covers: Chinese artist showing foreign soldiers (27 Sept.); eocene angiosperm flowers (30 Aug.); human spines (5 July); lioness (19 July); Mercury as seen by Mariner 10 (12 July); molecular model of yeast phenylalanine transfer RNA (2 Aug.); panicoid phytoliths (23 Aug.); plastic particles (9 Aug.); sea otter (20 Sept.); Statue of Liberty (16 Aug.); Strait of Gibraltar (13 Sept.); tiger swallowtail butterflies (26 July); watershed in the southern Appalachian Mountains (6 Sept.)
 CRAGG, G. M. L., Organoboranes in organic synthesis, *book review* of, 780
 Creative process, The (*letter*), L. L. Schwartz and S. Machlis, 1110
 Crepet, W. L., *et al.*: Eocene angiosperm flowers, 781
 Culberson, W. L.: *book review* of The lichens, 53
 Culliton, B. J. (*News and Comment*): biomedical research and the federal government, 508; cancer cure promised, 926; destroying angel and a search for an antidote, 600; National Research Act, 426; White House and the Cancer Board, 508
 ——— and D. S. Knopman (*News and Comment*): Dalkon shield, 839
 Current in hadron physics, v. DE ALFARO *et al.*, *book review* by A. Zee, 607
 Cyclization of the phosphate side chain of adenosine triphosphate: formation of monoadenosine 5'-trimetaphosphate, T. Glonek *et al.*, 352
 Cytotaxonomy and vertebrate evolution, A. B. CHIARELLI and E. CAPANNA (Eds.), *book review* by H. G. Callan, 54

D

- Dagdigian, P. J. *See* Zare, R. N.
 Daly, J. W. *See* Jerina, D. M.
 Damjanov, I. *See* Bulat, M., *et al.*
 Damon, P. E.: Solar power (*letter*), 478
 Daneš, Z. F. *See* Parker, F. L.
 Danielson, G. E. *See* Murray, B. C., *et al.*
 Darlington, G. J., *et al.*: Human serum albumin phenotype activation in mouse hepatoma-human leukocyte cell hybrids, 859
 Davidson, R. L. *See* Lin, M. S.
 Davies, M. E. *See* Murray, B. C., *et al.*
 Davis, R.: Technology as a deterrent to dehumanization (*editorial*), 737
 Davis, R. W. *See* Berg, P., *et al.*
 DE ALFARO, v., *et al.*, Current in hadron physics, *book review* of, 607
 Decoding the language of the bee, K. von Frisch, 663
 Dedifferentiated guard cells in magnoliaceous leaves, S. C. Tucker, 445
 Deevey, E. S., Jr.: *book review* of Peatlands, 1040
 Denckla, W. D. *See* Bilder, G. E.
 de Nevers, N. *See* Gregor, H. P., *et al.*
 Denmead, O. T., *et al.*: Ammonia flux into the atmosphere from a grazed pasture, 609
 Dentler, W. L. *See* Snell, W. J., *et al.*
 Denton, T. E. *See* Calton, M. S.
 Depositional sedimentary environments, H.-E. REINECK and I. B. SINGH, *book review* by G. V. Middleton, 249
 Depression, J. BECKER, *book review* by P. C. Whybrow, 433
 Desoize, B. *See* Segelman, A. B., *et al.*

- Detection of a gonadotropin in rabbit blastocyst before implantation, F. Haour and B. B. Saxena, 444
- Deteriorating energy position, The (*editorial*), P. H. Abelson, 309
- Development of biochemical concepts from ancient to modern times, H. M. LEICESTER, *book review* by J. S. Fruton, 936
- DeVries, A. L. *See* Dobbs, G. H., III, *et al.*
- Dickinson, R. *See* Howard, H. T., *et al.*
- Dickinson, W. R., and R. Shutler, Jr.: Probable Fijian origin of quartzose temper sands in prehistoric pottery from Tonga and the Marquesas, 454
- Dilcher, D. L. *See* Crepet, W. L., *et al.*
- Discovery of the conservation of energy, The, Y. ELKANA, *book review* by T. L. Hankins, 937
- Dobbs, G. H., III, *et al.*: Agglomerularism in Antarctic fish, 793
- Donn, B. *See* Feldman, P. D., *et al.*
- Donn, W. L., and N. K. Balachandran: Meteors and meteorites detected by infrasound, 707
- Doolittle, R. E. *See* Tumlinson, J. H., *et al.*
- Doolittle, R. F., *et al.*: Platelet and plasma fibrinogens are identical gene products, 368
- Douglass, J. E. *See* Swank, W. T.
- Dragsten, P. R., *et al.*: Auditory membrane vibrations: measurements at sub-angstrom levels by optical heterodyne spectroscopy, 55
- Dreifuss, J. J. *See* Arnauld, E., *et al.*
- Drescher, D. G.: Noise-induced reduction of inner-ear microphonic response: dependence on body temperature, 273
- Dublin, T. D.: Foreign physicians: their impact on U.S. health care, 407
- Duboff, G. S. *See* Seybolt, J. F.
- Duke, W. B. *See* Putnam, A. R.
- DUNN, W. L., JR. (Ed.), Smoking behavior, *book review* of, 1039
- Dunne, J. A.: Mariner 10 Mercury encounter, 141
- Dupree, A. H.: Metrication as cultural adaptation (*letter*), 208
- Dvorak, A. M. *See* Hammond, M. E., *et al.*
- Dvorak, H. F. *See* Hammond, M. E., *et al.*
- Dyson, F.: *book review* of The physicist's conception of nature, 1160

E

- Eadie, B. J. *See* Sackett, W. M., *et al.*
- Earthquake prediction: absence of a precursive change in seismic velocities before a tremor of magnitude $3\frac{3}{4}$, A. McGarr, 1047
- Eaton, R. L.: Second cat conference (*meeting report*), 284
- Ecological genetics and natural selection in mollusks, D. F. Owen and J. S. Jones, 376
- Edelson, R. E. *See* Howard, H. T., *et al.*
- Editorials*: AAAS: retrospect and prospect, 107; The deteriorating energy position, 309; Education and the job market, 571; Hemispheric cooperation in science, 485; The humility factor, 817; Medical school admissions matching, 401; Mr. Ford and science policy, 651; The problem of urban dogs, 903; Should we ban nuclear testing now?, 11; Targets, 209; Technology as a deterrent to dehumanization, 737; Two digit inflation, 1005; World population: world responsibility, 1113
- Education and the job market (*editorial*), C. R. Wharton, 571

- Edwards, C. C.: Fetal research (*letter*), 900
- Effects of the Scopes trial, J. V. Grabner and P. D. Miller, 832
- Einstein and the generations of science, L. S. FEUER, *book review* by J. L. Heilbron, 777
- Electrical resistivity variations associated with earthquakes on the San Andreas fault, A. Mazzella and H. F. Morrison, 855
- Electrons and protons accelerated in Mercury's magnetic field, J. A. Simpson *et al.*, 160
- ELKANA, Y., The discovery of the conservation of energy, *book review* of, 937
- Ellen Swallow, R. CLARKE, *book review* by M. W. Rossiter, 1040
- Ely S. Parker (*letter*), E. Tooker, 1001
- Enduring learning deficits and cerebral synaptic malformation from exposure to 10 parts of halothane per million, K. L. Quimby *et al.*, 625
- Energy and food (*letters*), D. Chapman *et al.*, 482
- Energy-induced inflation (*letter*), W. E. Parkins, 478
- Energy, manpower, and the highway trust fund, R. Bezdek and B. Hannon, 669
- Enright, J. T.: *book review* of Biological clocks in marine organisms, 521
- Entine, G. *See* Liebman, P. A.
- Eocene angiosperm flowers, W. L. Crepet *et al.*, 781
- Eolian biogenic detritus in deep sea sediments: a possible index of equatorial Ice Age aridity, C. Parmenter and D. W. Folger, 695
- Eraker, J. H. *See* Simpson, J. A., *et al.*
- Erratum*: News and Comment (12 July, p. 126), 340; (20 Sept., p. 1027), 1143
- Esposito, P. B. *See* Howard, H. T., *et al.*
- Essays on the nervous system, R. BELLAIRES and E. G. GRAY (Eds.), *book review* by M. Scheibel and A. B. Scheibel, 1160
- Estes, J. A., and J. F. Palmisano: Sea otters: their role in structuring nearshore communities, 1058
- Ethnic classification of Mexican-Americans, T. E. Reed, 283
- Ethology and stress diseases, N. Tinbergen, 20
- Etzioni, A.: The humility factor (*editorial*), 817. *See also* Fine, B. J.
- Evans, G. W. *See* Scheinberg, I. H.
- Evolution of anuran life cycles, R. J. Wassersug and H. M. Wilbur, 377
- Evolution of marmot societies, The: a general theory, D. P. Barash, 415
- Evolution of the brain and intelligence (*letter*), S. J. Gould, 400
- Explanation of culture change, The, C. RENFREW (Ed.), *book review* by I. Rouse, 343
- Expression of the familial hypercholesterolemia gene in heterozygotes: mechanism for a dominant disorder in man, M. S. Brown and J. L. Goldstein, 61
- Extracellular acidosis protects Ehrlich ascites tumor cells and rat renal cortex against anoxic injury, A. Penttila and B. F. Trump, 277

F

- Faber, B. L. *See* Raaf, J. H., *et al.*
- "Facile humanists" (*letters*), B. J. Fine and A. Etzioni, 99
- Fahimi, H. D. *See* Herzog, V.
- Failure of beta-adrenergic receptor blockade to prevent arrhythmias induced by sympathetic nerve stimulation, R. A. Gillis *et al.*, 70
- Fanning, J. *See* Mohr, P. A.
- Faraci, R. P., and L. Schour: Malignant

- melanoma: specific immunity induced by bacillus Calmette-Guérin in BALB/c mice, 68
- Fasman, G. D.: *book review* of Biopolymers, 851
- Fastie, W. G. *See* Feldman, P. D., *et al.*
- Featherman, D. L. *See* Hauser, R. M.
- Feeny, P. *See* Arms, K., *et al.*
- Feinberg, I., *et al.*: Absence of REM rebound after barbiturate withdrawal, 534
- Feldmann, B. M.: The problem of urban dogs (*editorial*), 903
- Feldman, P. D., *et al.*: Rocket ultraviolet spectrophotometry of Comet Kohoutek (1973f), 705
- Fenfluramine: amphetamine congener that fails to maintain drug-taking behavior in the rhesus monkey, J. H. Woods and R. E. Tessel, 1067
- Fernstrom, J. D. *See* Wurtman, R. J., *et al.*
- Fetal research (*letter*), C. C. Edwards, 900
- FEUER, L. S., Einstein and the generations of science, *book review* of, 777
- Fibiger, H. C. *See* Zis, A. P., *et al.*
- Finch, E. D. *See* Foster, K. R.
- Fine, B. J., and A. Etzioni: "Facile humanists" (*letters*), 99
- Finn, D. F. X.: Geothermal resources: prospects for development (*letter*), 483
- Firing patterns of hypothalamic supraoptic neurons during water deprivation in monkeys, E. Arnauld *et al.*, 535
- Fishery conservation (*letters*), J. Joseph and L. J. Carter, 900
- Fitchett, A. G. *See* Henderson, J. S., *et al.*
- Fjeldbo, G. *See* Howard, H. T., *et al.*
- Flaming, D. G. *See* Brown, K. T.
- Fletcher, T. C., and B. A. Baldo: Immediate hypersensitivity responses in flatfish, 360
- Fluorine in organic chemistry, R. D. CHAMBERS, *book review* by W. A. Sheppard, 937
- Folger, D. W. *See* Parmenter, C.
- Foreign physicians: their impact on U.S. health care, T. D. Dublin, 407
- Forster, R. E.: *book review* of Myoglobin, 53
- Foster, K. R., and E. D. Finch: Microwave hearing: evidence for thermoacoustic auditory stimulation by pulsed microwaves, 256
- Frances, S.: Recombinant DNA molecules (*letter*), 1001
- Frankel, M. S.: Sex preselection (*letter*), 1109
- Free-radical chemistry, D. C. NONHEBEL and J. C. WALTON, *book review* by C. Walling, 520
- Free radicals and inflammation: protection of synovial fluid by superoxide dismutase, J. M. McCord, 529
- Freney, J. R. *See* Denmead, O. T., *et al.*
- Friedman, I., *et al.*: Water and carbon in rusty lunar rock 66095, 346
- Frisch, R. E., and J. W. McArthur: Menstrual cycles: fatness as a determinant of minimum weight for height necessary for their maintenance or onset, 949
- Fruton, J. S.: *book review* of Development of biochemical concepts from ancient to modern times, 936
- FUBINI, S. *See* DE ALFARO, V., *et al.*
- FURLAN, G., *See* DE ALFARO, V., *et al.*

G

- Gallo, R. C. *See* Mayer, R. J., *et al.*
- Gamma-ray astrophysics, F. W. STECKER and J. I. TROMBKA (Eds.), *book review* by M. Harwit, 607
- Ganansia, M. F. *See* Mendell, J. R., *et al.*
- Gans, C.: *book review* of Analysis of

- vertebrate structure and Comparative vertebrate morphology, 138
- Garcia, J., *et al.*: Behavioral regulation of the milieu interne in man and rat, 824
- Gardier, R. W. *See* Mendell, J. R., *et al.*
- Gasser, D. L. *See* Hildemann, W. H., *et al.*
- Gaufin, A. R. *See* Stanford, J. A.
- Gault, D. E. *See* Murray, B. C., *et al.*
- See also* Vedder, J. F., *et al.*
- Geison, G. L., *et al.*: Letters of recommendation (*letters*), 399
- Gelation of sickle cell hemoglobin: effects of hybrid tetramer formation in hemoglobin mixtures, K. Moffat, 274
- Genetic counseling and the law (*letter*), P. J. Keilholz, 569
- Genetic recombination in the dinoflagellate *Cryptocodinium cohnii*, R. C. Tuttle and A. R. Loeblich III, 1061
- Genetic variation in coumarin hydroxylase activity in the mouse (*Mus musculus*), A. W. Wood and A. H. Conney, 612
- Genetics and mutagenesis of fish, J. H. SCHRÖDER (Ed.), *book review* by J. W. Atz, 608
- Gentry, C. R. *See* Tumlinson, J. H., *et al.*
- Geothermal resources: prospects for development (*letter*), D. F. X. Finn, 483
- GERSHON, S., and B. SHOPSIN (Eds.), *Lithium, book review* of, 433
- Gill, T. V. *See* Mistler-Lachman, J. L., *et al.*
- Gillberg, B. O.: Optical brighteners and social responsibility (*letter*), 901
- Gillette, R. (*News and Comment*): Atomic Energy Commissioners, 679; Bisplinghoff to resign, 338; General Electric's plant for nuclear fuel reprocessing, 770; nuclear safety, 838; nuclear testing violations, 506; oil and gas resources, 127; plutonium industry and health, 1027 (*erratum*, 1143), 1140; Stever and advising the White House, 334; Threshold Test Ban Treaty, 507; U.S.-Soviet summit and science, 237. *See also* Carter, L. J., and R. Gillette. *See also* Commoner, B.
- Gillis, R. A., *et al.*: Failure of beta-adrenergic receptor blockade to prevent arrhythmias induced by sympathetic nerve stimulation, 70
- Gillmor, D. S.: Wisdom shortage (*letter*), 649
- Glacial migrations of plants: island biogeographical evidence, B. B. Simpson, 698
- Glass, G. E. *See* Cook, P. M., *et al.*
- Gleason, J. D. *See* Friedman, I., *et al.*
- Glick, S. D. *See* Zimmerberg, B., *et al.*
- Glonek, T., *et al.*: Cyclization of the phosphate side chain of adenosine triphosphate: formation of monoadenosine 5'-trimetaphosphate, 352
- Glossmann, H., *et al.*: Cation dependence of high-affinity angiotensin II binding to adrenal cortex receptors, 281
- Golder, T. K.: *Woodruffia metabolica*: an exception to the rule of desmodoxy, 57
- Goldman, A. I. *See* Ham, W. T., Jr., *et al.*
- Goldstein, G.: Quality of chemical compounds (*letter*), 568
- Goldstein, J. L. *See* Brown, M. S.
- Goodman, S. I. *See* Valle, D. L., *et al.*
- Goodson, J. M. *See* Raisz, L. G., *et al.*
- Gordon, A. S. *See* Libbin, R. M., *et al.*
- Gorman, A. L. F., and J. S. McReynolds: Control of membrane K⁺ permeability in a hyperpolarizing photoreceptor: similar effects of light and metabolic inhibitors, 620
- Gould, S. J.: Evolution of the brain and intelligence (*letter*), 400
- Grabiner, J. V., and P. D. Miller: Effects of the Scopes trial, 832
- Grantham, R.: Amino acid difference formula to help explain protein evolution, 862
- GRAY, E. G. *See* BELLAIRS, R.
- Gray, J., *et al.*: Silurian trilete spores and spore tetrads from Gotland: their implications for land plant evolution, 260
- Green, B. S., and L. Heller: Mechanism for the autocatalytic formation of optically active compounds under abiotic conditions, 525
- Green, G. *See* Bakus, G. J.
- Greenstein, G., and J. E. McClintock: Prospects for detecting blackbody x-rays from neutron stars, 487
- Gregor, H. P., *et al.*: Osmotic power plant (*letters*), 101
- Griffin, D. R. *See* Ankerl, G., *et al.*
- Grimes, G. W., *et al.*: Mitochondrial morphology, 630
- Griminger, P.: 1984 (*letter*), 400
- Gwinner, E.: Testosterone induces "splitting" of circadian locomotor activity rhythms in birds, 72
- ## H
- Hagins, W. A. *See* Yoshikami, S., *et al.*
- Haimo, L. T. *See* Snell, W. J., *et al.*
- HALE, M. E. *See* AHMADJIAN, V.
- Ham, W. T., Jr., *et al.*: Ocular hazard from picosecond pulses of Nd:YAG laser radiation, 362
- Hamilton, J. H.: University isotope separator at Oak Ridge: the UNISOR consortium, 819
- Hamman, J. P. *See* Seliger, H. H., *et al.*
- Hammond, A. L. (*News and Comment*): breeder reactor program and complications, 768; (*Research News*): chemistry and science in the next 100 years, 847; modeling the climate, 1145; physical oceanography, 246; seismological indicators of gas and oil, 515; undersea storms, 244
- Hammond, M. E., *et al.*: MIF-like activity in simian virus 40-transformed 3T3 fibroblast cultures, 955
- Hankins, T. L.: *book review* of The discovery of the conservation of energy, 937
- Hankins, W. G. *See* Garcia, J., *et al.*
- HANNAY, N. B. (Ed.), *Treatise on solid state chemistry, book review* of, 689
- Hanneman, R. E. *See* Wentorf, R. H., Jr.
- Hannon, B. *See* Bezdek, R.
- Haour, F., and B. B. Saxena: Detection of a gonadotropin in rabbit blastocyst before implantation, 444
- Hapke, B. *See* Murray, B. C., *et al.*
- Hardcastle, K. G. *See* Friedman, I., *et al.*
- Hardy, K. R.: Social origins of American scientists and scholars, 497
- Harrison, H. *See* Merriam, M. F., *et al.*
- Hartle, R. E. *See* Ogilvie, K. W., *et al.*
- Harwit, M.: *book review* of Gamma-ray astrophysics, 607
- Hauser, R. M., and D. L. Featherman: Socioeconomic achievements of U.S. men, 1962 to 1972, 325
- Hayaishi, O.: *book review* of Pineal chemistry, 936
- Hayhoe, M. *See* MacLeod, D. I. A.
- Heath, R. R. *See* Tumlinson, J. H., *et al.*
- Hecht, F., and B. K. McCaw: Leukemia and chromosomes (*letter*), 735
- Heilbron, J. L.: *book review* of Einstein and the generations of science, 777
- Hein, R. A.: Superconductivity: large-scale applications, 211
- Heinrich, B.: Thermoregulation in endothermic insects, 747
- Helicoidal crack propagation in aluminous orthoamphiboles, J. H. Stout, 251
- Heller, L. *See* Green, B. S.
- Hemispheric cooperation in science (*editorial*), P. H. Abelson, 485
- Hemoglobin switching in sheep and goats: occurrence of hemoglobins A and C in the same red cell, A. W. Nienhuis and H. F. Bunn, 946
- Henderson, J. S., *et al.*: Origin of the 260-day cycle in Mesoamerica, 542
- Herbicides in Vietnam (*letter*), K. V. Thimann, 207
- Herreid, C. F., II: Medical school recommendations (*letter*), 9
- Herschman, A.: Science and the quality of life (*AAAS*), 1149
- Herzog, V., and H. D. Fahimi: Microbodies (peroxisomes) containing catalase in myocardium: morphological and biochemical evidence, 271
- Hetland, L. *See* Mendell, J. R., *et al.*
- HEYWOOD, V. H. (Ed.), *Taxonomy and ecology, book review* of, 139
- Hibi, S. *See* Feinberg, I., *et al.*
- HILDEBRAND, M.: Analysis of vertebrate structure, *book review* of, 138
- Hildemann, W. H., *et al.*: Sex-associated antigens in mice and rats, 962
- Hillman, P., and G. S. Wasserman: The tuned-receptor paradigm, 629
- Hinman, A. *See* Hotchin, J., *et al.*
- Hirschfeld, R. C. *See* Christian, J. T.
- Hobbs, P. V. *See* Merriam, M. F., *et al.*
- Hoekman, T. *See* Gillis, R. A., *et al.*
- Hoffer, B. J. *See* Bloom, F. E., *et al.*
- Hoffmann, H.-P. *See* Grimes, G. W., *et al.*
- Hogness, D. S. *See* Berg, P., *et al.*
- Holden, C. (*News and Comment*): beagles and the Army, 130, 309; Brown and the world alert, 680; Butner, an experimental U.S. prison, 423; chiropractic healing, 922; equal employment opportunity leadership at the National Aeronautics and Space Administration, 769; Federation of American Scientists plan to expand, 47; Maryland scientists and the Maryland Psychiatric Research Center, 238, 769; methadone court ruling threatens Food and Drug Administration regulations, 46; National Academy of Sciences okays auto emission standards, 1142; power pricing, 1031; social science and the National Science Foundation, 597
- Holland, L. M. *See* Ham, W. T., Jr., *et al.*
- Holstein, B. R.: *book review* of Beta decay and muon capture, 248
- Homos and heteros among the homos, R. Benesch and R. E. Benesch, 905
- Hot brines on Los Roques, Venezuela, P. P. Hudec and P. Sonnenfeld, 440
- Hotchin, J., *et al.*: Lymphocytic choriomeningitis in a hamster colony causes infection of hospital personnel, 1173
- Houston, J. E., *et al.*: Surface electronic properties of tungsten, tungsten carbide, and platinum, 258
- Howard, H. T., *et al.*: Mercury: results on mass radius, ionosphere, and atmosphere from Mariner 10 dual-frequency radio signals, 179
- HOWELLS, W.: The Pacific islanders, *book review* of, 850
- Hudec, P. P., and P. Sonnenfeld: Hot brines on Los Roques, Venezuela, 440
- Human rights (*letter*), H. N. Wiren, 570
- Human serum albumin phenotype activation in mouse hepatoma-human leukocyte cell hybrids, G. J. Darlington *et al.*, 859
- Humane "weapons" (*letter*), L. Bergner, 304
- Humility factor, The (*editorial*), A. Etzioni, 817
- 5-Hydroxyindoleacetic acid in the lumbar fluid: a specific indicator of spinal cord injury, M. Bulat *et al.*, 527
- Hyman, H.: *book review* of The use of time, 605
- Hyporheic communities of two Montana rivers, J. A. Stanford and A. R. Gauffin, 700

I

- Immigration composition and population policy, C. B. Keely, 587
- Immunologic modification: a basic survival mechanism, B. B. Jacobs and D. E. Uphoff, 582
- Immediate hypersensitivity responses in flatfish, T. C. Fletcher and B. A. Baldo, 360
- Impact of oil resource development on northern plant communities, The, B. H. McCOWN and D. R. SIMPSON (Eds.), book review by L. C. Bliss, 935
- Imprisoned Soviet mathematician (letter), L. Bers, 735
- Industrial energy conservation: dual incentives (letter), G. Thomas, 480
- Inert gas narcosis, the high pressure neurological syndrome, and the critical volume hypothesis, K. W. Miller, 867
- Interaction of sperm with somatic cells (letters), M. Coppleson *et al.*, 104
- International agricultural education (letter), E. A. Brams and J. I. Kirkwood, 649
- Interpreting the failures to confirm the depression of cerebellar Purkinje cells by cyclic AMP, F. E. Bloom *et al.*, 627
- Iron-sulfur proteins, W. LOVENBERG (Ed.), book review by L. C. Sieker, 344
- Isolated brain microvessels: a purified, metabolically active preparation from bovine cerebral cortex, K. Brendel *et al.*, 953
- Iyer, S. S.: What we have yet to learn (letter), 400

J

- Jackson, D. B. See Mendell, J. R., *et al.*
- Jackson, G. G.: book review of Selective inhibitors of viral functions, 344
- Jacobs, B. B., and D. E. Uphoff: Immunologic modification: a basic survival mechanism, 582
- Jacquet, Y. F., and A. Lajtha: Paradoxical effects after microinjection of morphine in the periaqueductal gray matter in the rat, 1055
- Jaffe, J. H.: book review of Smoking behavior, 1039
- Jakupčević, M. See Bulat, M., *et al.*
- Jerina, D. M., and J. W. Daly: Arene oxides: a new aspect of drug metabolism, 573
- Jerussi, T. P. See Zimmerberg, B., *et al.*
- Johnson, L. Y. See Reiter, R. J., *et al.*
- Jones, A. L.: Shadow of the sun (letter), 813
- Jones, J. S. See Owen, D. F.
- Jones, R. See Mann, T., *et al.*
- Joseph, J., and L. J. Carter: Fishery conservation (letters), 900
- Judgment under uncertainty: heuristics and biases, A. Tversky and D. Kahneman, 1124
- Juvenile hormone synergists: a possible case of hasty conclusion?, K. R. Solomon and W. F. Walker, 461

K

- Kaehler, S. L. See Nowinski, R. C.
- KAGEN, L. J., Myoglobin, book review of, 53
- Kahneman, D. See Tversky, A.
- Kaiser, K. L. E.: Mirex: an unrecognized contaminant of fishes from Lake Ontario, 523
- Kakela, P. See Chapman, S., *et al.*
- Kapikian, A. Z., *et al.*: Reoviruslike agent in stools: association with infantile diarrhea and development of serologic tests, 1049

- Kaplan, N. O. See Venter, J. C., *et al.*
- KARGON, R. H. (Ed.), The maturing of American science, book review of, 519
- Katz, H. M. See Slotnick, B. M.
- Katz, J. See Quimby, K. L., *et al.*
- Keely, C. B.: Immigration composition and population policy, 587
- Keilholz, P. J.: Genetic counseling and the law (letter), 569
- Kellett, J. C., Jr. See Chapman, S., *et al.*
- Kemp, G. E. See Monath, T. P., *et al.*
- KENNEDY, J. M., A psychology of picture perception, book review of, 1159
- Kepler, M. O.: Monitoring medical care (letter), 736
- Kerogen recycling in the Ross Sea Antarctica, W. M. Sackett *et al.*, 1045
- Khachatourians, G. G. See Tipper, D. J.
- Kim, H. W. See Kapikian, A. Z., *et al.*
- Kim, S. H., *et al.*: Three-dimensional tertiary structure of yeast phenylalanine transfer RNA, 435
- Kinch, W. See Hotchin, J., *et al.*
- Kirkwood, J. I. See Brams, E. A.
- Kistiakowsky, G. B., and H. F. York: Strategic arms race slowdown through test limitations, 403
- Kitamura, S. See Said, S. I., *et al.*
- Kleps, R. A. See Glonek, T., *et al.*
- Kliore, A. J. See Howard, H. T., *et al.*
- Knapp, F. D. See Colton, J. B., Jr., *et al.*
- Knopman, D. S. (News and Comment): double bottom tanker ruling, 601. See also Culliton, B. J., and D. S. Knopman
- Kolata, G. B. (Research News): human biogeography, 134; Kung hunter-gatherers, 932; mathematical problems and a committee to replace Hilbert, 430; protein synthesis and its control, 517, 603; Riemann hypotheses, 429
- Kubo, A. S. See Nielsen, S. O.
- Kumar, S. See Broadfoot, A. L., *et al.*
- KUNDSIN, R. B. (Ed.), Successful women in the sciences, book review of, 1040; Women and success, book review of, 1040
- Kupchan, S. M., and R. M. Schubert: Selective alkylation: a biomimetic reaction of the antileukemic triptolides?, 791
- Kuriyama, K. See Roberts, E.
- Kuwabara, T. See Ham, W. T., Jr., *et al.*

L

- Lachman, R. See Mistler-Lachman, J. L., *et al.*
- Lacković, Z. See Bulat, M., *et al.*
- D(-)-Lactic acid and D(-)-lactate dehydrogenase in octopus spermatozoa, T. Mann *et al.*, 453
- Ladda, R., *et al.*: Computer-assisted analysis of chromosomal abnormalities: detection of a deletion in aniridia/Wilms' tumor syndrome, 784
- Lajtha, A. See Jacquet, Y. F.
- Lalley, P. A., and T. B. Shows: Lysosomal and microsomal glucuronidase: genetic variant alters electrophoretic mobility of both hydrolases, 442
- Lamport, J. E. See Simpson, J. A., *et al.*
- Landau, E. M., and D. Ben-Haim: Acetylcholine noise: analysis after chemical modification of receptor, 944
- Language in man, monkeys, and machines, J. L. Mistler-Lachman *et al.*, 871
- Laramore, G. E. See Houston, J. E., *et al.*
- Larimer, J. W. See Vedder, J. F., *et al.*
- Larin, F. See Wurtman, R. J., *et al.*
- Lassa virus isolation from *Mastomys natalensis* rodents during an epidemic in Sierra Leone, T. P. Monath *et al.*, 263
- Lateral diffusion of visual pigment in

- photoreceptor disk membranes, P. A. Liebman and G. Entine, 457
- Latt, S. A.: Localization of sister chromatid exchanges in human chromosomes, 74
- Laufeld, S. See Gray, J., *et al.*
- Lazarus, A. J. See Ogilvie, K. W., *et al.*
- Lectins: a possible basis for specificity in the *Rhizobium*-legume root nodule symbiosis, B. B. Bohlool and E. L. Schmidt, 269
- Lederhouse, R. C. See Arms, K., *et al.*
- LEICESTER, H. M., Development of biochemical concepts from ancient to modern times, book review of, 936
- LEIVE, L. (Ed.), Bacterial membranes and walls, book review of, 779
- Leppard, G. G.: Rhizoplane fibrils in wheat: demonstration and derivation, 1066
- Lepping, R. P. See Ness, N. F., *et al.*
- Letters of recommendation (letters), G. L. Geison *et al.*, 399
- Leukemia and chromosomes (letter), F. Hecht and B. K. McCaw, 735
- Levenspiel, O. See Gregor, H. P., *et al.*
- Levy, G. S. See Howard, H. T., *et al.*
- Libbin, R. M., *et al.*: Renal lysosomes: role in biogenesis of erythropoietin, 1174
- Lichens, The, v. AHMADJIAN and M. E. HALE (Eds.), book review by W. L. Culbertson, 53
- Liebman, P. A., and G. Entine: Lateral diffusion of visual pigment in photoreceptor disk membranes, 457
- Lim, R., and K. Mitsunobu: Brain cells in culture: morphological transformation by a protein, 63
- Lin, M. S., and R. L. Davidson: Centric fusion, satellite DNA, and DNA polarity in mouse chromosomes, 1179
- Lin, Y. See Dobbs, G. H., III, *et al.*
- Lipton, M. A.: book review of Separation and depression, 689
- Lithium, s. GERSHON and B. SHOPSIN (Eds.), book review by J. W. Maas, 433
- Littlefield, J. See Ladda, R., *et al.*
- Localization of sister chromatid exchanges in human chromosomes, S. A. Latt, 74
- Lodge, J. P.: Clean air by 1975? (letter), 1109
- Loeblich, A. R., III. See Tuttle, R. C.
- Long-lived chemiluminescence in cigarette smoke, H. H. Seliger *et al.*, 253
- Long search for stable transition metal alkyls, The, G. Wilkinson, 109
- Lorenz, K. Z.: Analogy as a source of knowledge, 229
- LOUGHHEAD, R. E. See BRAY, R. J.
- LOVENBERG, W. (Ed.), Iron-sulfur proteins, book review of, 344
- Lutwak-Mann, C. See Mann, T., *et al.*
- Luyten, W. J.: Stellar motion survey by automation, 351
- Lymphocytic choriomeningitis in a hamster colony causes infection of hospital personnel, J. Hotchin *et al.*, 1173
- Lysosomal and microsomal glucuronidase: genetic variant alters electrophoretic mobility of both hydrolases, P. A. Lalley and T. B. Shows, 442

M

- Maas, J. W.: book review of Lithium, 443
- MacDougall, D., and P. B. Price: Attempt to date early South African hominids by using fission tracks in calcite, 943
- MacGregor, I. D., and A. R. Basu: Thermal structure of the lithosphere: a petrologic model, 1007
- Machlis, S. See Schwartz, L. L.
- Mack, S. B. (News and Comment): Na-

- tional Science Board has new members, 241
- MacLeod, D. I. A., and M. Hayhoe: Rod origin of prolonged afterimages, 1171
- Magnetic field observations near Mercury: preliminary results from Mariner 10, N. F. Ness *et al.*, 151
- Mahler, H. R. *See* Grimes, G. W., *et al.*
- Malignant melanoma: specific immunity induced by bacillus Calmette-Guérin in BALB/c mice, R. P. Faraci and L. Schour, 68
- Malmstrom, V. H. *See* Henderson, J. S., *et al.*
- MANGELSDORF, P. C., Corn, *book review of*, 687
- Mann, T., *et al.*: D(—)-Lactic acid and D(—)-lactate dehydrogenase in octopus spermatozoa, 453
- March, J. *See* Feinberg, I., *et al.*
- Marcus, N. A., and C. E. Riggs, Jr.: Medical school admissions matching (*editorial*), 401
- Marimuthu, K. M. *See* Ladda, R., *et al.*
- Mariner 10 Mercury encounter, J. A. Dunne, 141
- Marks, B. *See* Mendell, J. R., *et al.*
- Marler, P. *See* Ankerl, G., *et al.*
- Martens, C. S., and R. A. Berner: Methane production in the interstitial waters of sulfate-depleted marine sediments, 1167
- Martin, A. W. *See* Mann, T., *et al.*
- Martin, W. L. *See* Howard, H. T., *et al.*
- Marx, J. L. (*News and Comment*): cancer claim retracted, 926; (*Research News*): immunology and the role of β_2 -microglobulin, 428; nerve growth factor, 930, nitrogen fertilizer, 133; nitrogen fixation, 132
- Mathews, M. U. *See* Allen, A. D., *et al.*
- Maturing of American science, The, R. H. KARGON (Ed.), *book review by* A. K. Smith, 519
- Maugh, T. H., II (*Research News*): leukemia picture is still confused, 48, 49; marihuana, 683, 775; skunks and their scent, 1146
- Mauk, A. G., *et al.*: Anemia in domestic cats: effect on hemoglobin components and whole blood oxygenation, 447
- Maxson, L. R., and A. C. Wilson: Convergent morphological evolution detected by studying proteins of tree frogs in the *Hyla eximia* species group, 66
- Mayer, R. J., *et al.*: Reverse transcriptase in normal rhesus monkey placenta, 864
- Mayhew, D. E., and T. W. Carroll: Barley stripe mosaic virions associated with spindle microtubules, 957
- Mazzella, A., and H. F. Morrison: Electrical resistivity variations associated with earthquakes on the San Andreas fault, 855
- McArthur, J. W. *See* Frisch, R. E.
- McCaw, B. K. *See* Hecht, F.
- McClintock, J. E. *See* Greenstein, G.
- McCord, J. M.: Free radicals and inflammation: protection of synovial fluid by superoxide dismutase, 529
- MC COWN, B. H., and D. R. SIMPSON (Eds.), The impact of oil resource development on northern plant communities, *book review of*, 935
- McElroy, M. B. *See* Broadfoot, A. L., *et al.*
- McFarland, W. L. *See* Teitelbaum, H., *et al.*
- McGarr, A.: Earthquake prediction: absence of a precursive change in seismic velocities before a tremor of magnitude $3\frac{3}{4}$, 1047
- McKinney, F. K. *See* Banta, W. C., *et al.*
- McLennan, D. J.: *book review of* Mechanisms of elimination reactions, 248
- McMahon, D.: Chemical messengers in development, 1012
- McPherson, A. *See* Kim, S. H., *et al.*
- McReynolds, J. S. *See* Gorman, A. L. F.
- Mead, M.: World population: world responsibility (*editorial*), 1113
- Mechanism for the autocatalytic formation of optically active compounds under abiotic conditions, B. S. Green and L. Heller, 525
- Mechanisms of elimination reactions, w. H. SAUNDERS, JR., and A. F. COCKERILL, *book review by* D. J. McLennan, 248
- Medical school admissions matching (*editorial*), N. A. Marcus and C. E. Riggs, Jr., 401
- Medical school recommendations (*letter*), C. F. Herreid II, 9
- Meeting Reports: Anthropology applied to health programs, 545; Second cat conference, 284; Strategies for study of synaptic organization, 964
- Meezan, E. *See* Brendel, K., *et al.*
- MEHRA, J. (Ed.), The physicist's conception of nature, *book review of*, 1160
- Meier, R. R. *See* Opal, C. B., *et al.*
- Melatonin: its inhibition of pineal antigonadotrophic activity in male hamsters, R. J. Reiter *et al.*, 1169
- Mellet, J. S.: Scatological origin of microvertebrate fossil accumulations, 349
- Mellink, M. J.: *book review of* Copper and tin, 52
- Mendell, J. R., *et al.*: Toxic polyneuropathy produced by methyl *N*-butyl ketone, 787
- Menstrual cycles: fatness as a determinant of minimum weight for height necessary for their maintenance or onset, R. E. Frisch and J. W. McArthur, 949
- Mercury: results on mass, radius, ionosphere, and atmosphere from Mariner 10 dual-frequency radio signals, H. T. Howard *et al.*, 179
- Mercury's atmosphere from Mariner 10: preliminary results, A. L. Broadfoot *et al.*, 166
- Mercury's surface: preliminary description and interpretation from Mariner 10 pictures, B. C. Murray *et al.*, 169
- Mergenhausen, S. E. *See* Raisz, L. G., *et al.*
- Merriam, M. F., *et al.*: Solar energy absorption (*letters*), 101
- Meteors and meteorites detected by infrasound, W. L. Donn and N. K. Balachandran, 707
- Methane production in the interstitial waters of sulfate-depleted marine sediments, C. S. Martens and R. A. Berner, 1167
- Metrication as cultural adaptation (*letter*), A. H. Dupree, 208
- Metrication: historical perspective (*letters*), P. A. Mohr and J. Fanning, 646
- Metz, W. D. (*Research News*): Fermi National Accelerator Laboratory and research trends, 686; Mercury and Mariner 10 mission, 132; moons of the solar system, 1147; plate tectonics, 340; uranium enrichment, 602
- MEYNELL, G. G., Bacterial plasmids, *book review of*, 780
- Michelson, I.: Velikovsky forum (*letter*), 207
- Microbodies (peroxisomes) containing catalase in myocardium: morphological and biochemical evidence, V. Herzog and H. D. Fahimi, 271
- Microwave hearing: evidence for thermoacoustic auditory stimulation by pulsed microwaves, K. R. Foster and E. D. Finch, 256
- Middleton, G. V.: *book review of* Depositional sedimentary environments, 249
- MIF-like activity in simian virus 40-transformed 3T3 fibroblast cultures, M. E. Hammond *et al.*, 955
- Miller, J. (*News and Comment*): Food and Drug Administration seeks to regulate genetic manipulation of food crops, 240
- Miller, K. W.: Inert gas narcosis, the high pressure neurological syndrome, and the critical volume hypothesis, 867
- Miller, P. D. *See* Grabiner, J. V.
- MILLIMAN, J. D., Recent sedimentary carbonates, *book review of*, 938
- Miner, E. D. *See* Chase, S. C., *et al.*
- Mineral resources, economic growth, and world population, D. B. Brooks and P. W. Andrews, 13
- Mirex: an unrecognized contaminant of fishes from Lake Ontario, K. L. E. Kaiser, 523
- Mr. Ford and science policy (*editorial*), P. H. Abelson, 651
- Mistler-Lachman, J. L., *et al.*: Language in man, monkeys, and machines, 871
- Mitchell, E. R. *See* Tumlinson, J. H., *et al.*
- Mitochondrial morphology, G. W. Grimes *et al.*, 630
- Mitogenic activity of sterculic acid, a cyclopropenoid fatty acid, D. G. Scarpelli, 958
- Mitsunobu, K. *See* Lim, R.
- Miyake, A., and J. Beyer: Blepharmane: a conjugation-inducing glycoprotein in the ciliate *Blepharisma*, 621
- Modulation of the copulatory sequence of the male rat by a schedule of reinforcement, A. Silberberg and N. Adler, 374
- Moffat, K.: Gelation of sickle cell hemoglobin: effects of hybrid tetramer formation in hemoglobin mixtures, 274
- Mohr, P. A., and J. Fanning: Metrication: historical perspective (*letters*), 646
- Monath, T. P., *et al.*: Lassa virus from *Mastomys natalensis* rodents during an epidemic in Sierra Leone, 263
- Monitoring medical care (*letter*), M. O. Kepler, 736
- Mooney, H. A. *See* Troughton, J. H., *et al.*
- MOORE, P. D., and D. J. BELLAMY, Peatlands, *book review of*, 1041
- Morishima, A. *See* Segelman, A. B., *et al.*
- MORITA, M., Beta decay and muon capture, *book review of*, 248
- Morrison, D. *See* Chase, S. C., *et al.*
- Morrison, H. F. *See* Mazzella, A.
- Morrison, P. A.: Urban growth and decline: San Jose and St. Louis in the 1960's, 757
- Mostafapour, S. *See* Wurtman, R. J., *et al.*
- Motor pattern production in reciprocally inhibitory neurons exhibiting postinhibitory rebound, D. H. Perkel and B. Mulloney, 181
- Motulsky, A. G.: Brave new world?, 653
- Mueller, H. A. *See* Ham, W. T., Jr., *et al.*
- Mugnaini, E. *See* Cantino, D.
- MUHL, J. D., Copper and tin, *book review of*, 52
- Mulloney, B. *See* Perkel, D. H.
- Münch, G. *See* Chase, S. C., *et al.*
- Murray, B. C., *et al.*: Mercury's surface: preliminary description and interpretation from Mariner 10 pictures, 169
- Mushroom poisoning (*letter*), J. Ammirati, 1001
- Myers, T. C. *See* Glonek, T., *et al.*
- Myoglobin, L. J. KAGEN, *book review by* R. E. Forster, 53

N

- Nadel, E. R.: *book review of* Temperature regulation in mammals and other vertebrates, 688
- Nagel, S. C., *See* Atalla, R. H.
- Nahas, G. G. *See* Segelman, A. B., *et al.*
- Nair, B. K.: Cancer research in the wrong direction? (*letter*), 646
- Nathans, D. *See* Berg, P., *et al.*
- Natural history of associations, A. R. M. BRADFIELD, *book review by* E. Colson, 432

- Neighbor recognition in two "solitary" carnivores: the raccoon (*Procyon lotor*) and the red fox (*Vulpes fulva*), D. P. Barash, 794
- Ness, N. F., *et al.*: Magnetic field observations near Mercury: preliminary results from Mariner 10, 151
- Neugebauer, G. *See* Chase, S. C., *et al.*
- Neurath, P. *See* Ladda, R., *et al.*
- Neurochemical correlate of a spatial preference in rats, B. Zimmerberg *et al.*, 623
- Neuronal analysis of wave form in the time domain: midbrain units in electric fish during social behavior, H. Scheich, 365
- Newhouse, V. F. *See* Monath, T. P., *et al.*
- Newnam, B. E. *See* Ham, W. T., Jr., *et al.*
- News and Comment*: aldrin is suspended by Environmental Protection Agency, 601; American medical students in France, 594; arms control groups denounce summit treaty, 420; Atomic Energy Commissioners, 679; beagles and the Army, 130, 509; biomedical research and federal government, 508; Bisplinghoff to resign, 338; breeder reactor program and complications, 768; British reactor for their nuclear power, 511; Brown and the world alert, 680; Butner, an experimental U.S. prison, 423; cancer claim retracted, 926; cancer cure promised, 926; chiropractic healing, 922; Council on Environmental Quality and the Warm Springs dam, 679; Currie as world's largest R & D manager, 41; Dalkon shield, 839; destroying angel and a search for an antidote, 600; double bottom tanker ruling, 601; Dow Chemical and herbicide 2,4,5-T, 509; energy bureaucracy, 44; Environmental Protection Agency study, 678; equal employment opportunity leadership at the National Aeronautics and Space Administration, 769; Federation of American Scientists petitions for Soviet colleagues, 769; FAS plans to expand, 47; Fermi National Accelerator Laboratory, 766, 841; Ford in the White House, 764; French set quota for foreign medical students, 595; genetic manipulation and temporary embargo on research, 332; genetic manipulation of food crops, 240; General Electric's plant for nuclear fuel reprocessing, 770; green revolution and world food, 844; Heilbroner and a portrait of a world without science, 598; House cuts funds for binary weapons, 679; jury selection and social scientists, 1033; Kilian committee urges advisory council in White House, 39; Law of the Sea Conference, 336, 926; Maryland scientists and Maryland Psychiatric Research Center, 238, 769; methadone court ruling threatens the Food and Drug Administration regulations, 46; Middle East studies, 42; Missile Site Radar, 1137; Moscow scientists, 47, 238; National Academy of Sciences okays auto emission standards, 1142; NAS refuses photo, 239; National Research Act, 426; National Science Board has new members, 241; National Science Foundation gets a record budget, 1030; Nixon Administration, 124 (*erratum*, 340), 675, 677; nuclear safety, 838; nuclear testing violations, 506; Office of Technology Assessment, 510, 512; oil and gas resources, 127; particle physics postdoctorates, 842; plutonium industry and health, 1027 (*erratum*, 1143), 1140; power pricing, 1031; Sahelian drought, 234; science and a media event, 769; science and its critics, 925; science at the State Department 924; science policy hearings, 40; social science at NSF, 597; Stever and advising the White House, 334; strip mining, 513; Threshold Test Ban Treaty, 507; Trident challenged by lawsuit, 928; UN conferences and question of development, 1143; U.S. and British navies, 45; U.S.-Soviet summit and science, 237; weather modification research, 1142; White House and the Cancer Board, 508
- Nielsen, S. O., *et al.*: Nuclear waste disposal in the oceans, 1183
- Nienhuis, A. W., and H. F. Bunn: Hemoglobin switching in sheep and goats: occurrence of hemoglobins A and C in the same red cell, 946
- 1984 (*letter*), P. Griminger, 400
- Ninnemann, J. L. *See* Raaf, J. H., *et al.*
- Noble, E. R.: *book review* of Symbiosis in the sea, 608
- Noble, J. H.: Peer review: quality control of applied social research, 916
- Noise-induced reduction of inner-ear microphonic response: dependence on body temperature, D. G. Drescher, 273
- NONHEBEL, D. C., and J. C. WALTON, Free-radical chemistry, *book review* of, 520
- Nowinski, R. C., and S. L. Kaehler: Antibody to leukemia virus: widespread occurrence in inbred mice, 869
- Nuclear waste disposal in the oceans, S. O. Nielsen *et al.*, 1183
- ### O
- Observations at Mercury encounter by the plasma science experiment on Mariner 10, K. W. Ogilvie *et al.*, 145
- Octopamine: presence in single neurons of *Aplysia* suggests neurotransmitter function, J. M. Saavedra *et al.*, 364
- Ocular hazard from picosecond pulses of Nd : YAG laser radiation, W. T. Ham, Jr., *et al.*, 362
- Ogilvie, K. W., *et al.*: Observations at Mercury encounter by the plasma science experiment on Mariner 10, 145
- O'Leary, B. *See* Murray, B. C., *et al.*
- Olfactory learning-set formation in rats, B. M. Slotnick and H. M. Katz, 796
- O'Neill, J. *See* Mendell, J. R., *et al.*
- Opal, C. B., *et al.*: Comet Kohoutek: ultraviolet images and spectrograms, 702
- Optical brighteners and social responsibility (*letter*), B. O. Gillberg, 901
- Organoboranes in organic synthesis, G. M. L. CRAGG, *book review* by C. A. Brown, 780
- Orians, G. H.: *book review* of Competition and the structure of bird communities, 1158
- Origin of the 260-day cycle in Mesoamerica, J. S. Henderson *et al.*, 542
- Osmotic power plant (*letters*), H. P. Gregor *et al.*, 101
- Owen, D. F., and J. S. Jones: Ecological genetics and natural selection in mollusks, 376
- ### P
- Pacific islanders, The, W. HOWELLS, *book review* by W. M. Bass, 850
- Padia, J. T. *See* Bhandari, N.
- Palkovits, M. *See* Brownstein, M. J., *et al.*
- PALMER, J. D., Biological clocks in marine organisms, *book review* of, 521
- Palmisano, J. F. *See* Estes, J. A.
- Paradoxical affects after microinjection of morphine in the periaqueductal gray matter in the rat, Y. F. Jacquet and A. Lajtha, 1055
- Park, R. L. *See* Houston, J. E., *et al.*
- Parker, F. L., and Z. F. Daneš: Water pollution (*letters*), 568
- Parkins, W. E.: Energy-induced inflation (*letter*), 478
- Parmenter, C., and D. W. Folger: Eolian biogenic detritus in deep sea sediments: a possible index of equatorial Ice Age aridity, 695
- Parrott, R. H. *See* Kapikian, A. Z., *et al.*
- PARSONS, T. R., and M. TAKAHASHI, Biological oceanographic processes, *book review* of, 54
- Paton, J. A. *See* Dragsten, P. R., *et al.*
- Payer, L. J. (*News and Comment*): American medical students in France, 594
- Pearle, D. L. *See* Gillis, R. A., *et al.*
- Peatlands, P. D. MOORE and D. J. BELLAMY, *book review* by E. S. Deevey, Jr., 1041
- Peer review: quality control of applied social research, J. H. Noble, Jr., 916
- Penttilä, A., and B. F. Trump: Extracellular acidosis protects Ehrlich ascites tumor cells and rat renal cortex against anoxic injury, 277
- People of America, The, T. D. STEWART, *book review* by W. M. Bass, 850
- Perdue, S. *See* Arnold, W., *et al.*
- Pereboom, D. *See* Ankerl, G., *et al.*
- Perkel, D. H., and B. Mulloney: Motor pattern production in reciprocally inhibitory neurons exhibiting postinhibitory rebound, 181
- Perlman, P. S. *See* Grimes, G. W., *et al.*
- Person, P. *See* Libbin, R. M., *et al.*
- Pessac, B., and G. Calothy: Transformation of chick embryo neuroretinal cells by Rous sarcoma virus in vitro: induction of cell proliferation, 709
- Peterson, E. W.: Wind power (*letter*), 480
- Phang, J. M. *See* Valle, D. L., *et al.*
- Phillips, A. G. *See* Zis, A. P., *et al.*
- Photochemical activity of single chloroplasts recorded by the use of nuclear track emulsion, W. Arnold *et al.*, 59
- Photosynthetic mechanisms and paleoecology from carbon isotope ratios in ancient specimens of C₃ and CAM plants, J. H. Troughton *et al.*, 610
- Physical-chemical basis of lipid deposition in atherosclerosis, D. M. Small and G. G. Shipley, 222
- Physicist's conception of nature, The, J. MEHRA (Ed.), *book review* by F. Dyson, 1160
- Physicochemical correlates of olfactory quality, S. S. Schiffman, 112
- Pineal chemistry, W. B. QUAY, *book review* by O. Hayaishi, 936
- Pirkle, H., and P. Carstens: Pulmonary platelet aggregates associated with sudden death in man, 1062
- Plastic particles in surface waters of the northwestern Atlantic, J. B. Colton, Jr., *et al.*, 491
- Platelet and plasma fibrinogens are identical gene products, R. F. Doolittle *et al.*, 368
- Poag, C. W. *See* Sackett, W. M., *et al.*
- Point of View*: high cost of energy independence, 1034; salute to U.S. and British navies, 45; technopolitics, 676
- Possible noninhibition of cellular-mediated immunity in marihuana smokers, A. B. Segelman *et al.*, 543
- Postal, R. B. *See* Howard, H. T., *et al.*
- Potential biohazards of recombinant DNA molecules (*letter*), P. Berg *et al.*, 303
- Potter, F. W. *See* Crepet, W. L., *et al.*
- Potter, V. R.: The tragedy of the Sahel commons (*letter*), 813
- Prehistoric intensive agriculture in the Mayan lowlands, B. L. Turner II, 118
- Preliminary infrared radiometry of the night side of Mercury from Mariner 10, S. C. Chase *et al.*, 142
- Prentice, W. C. H. *See* Geison, G. L., *et al.*
- Price, P. B. *See* MacDougall, D.
- Prinz, D. K. *See* Opal, C. B., *et al.*
- Probable Fijian origin of quartzose temper sands in prehistoric pottery from

- Tonga and the Marquesas, W. R. Dickinson and R. Shutler, Jr., 454
 Problem of urban dogs, The (*editorial*), B. M. Feldmann, 903
 Promises of technology, The (*letter*), K. Roe, 478
 Prospects for detecting blackbody x-rays from neutron stars, G. Greenstein and J. E. McClintock, 487
 Psychology of picture perception, A. J. M. KENNEDY, *book review* by L. A. Cooper, 1159
 Pulmonary alveolar hypoxia: release of of prostaglandins and other humoral mediators, S. I. Said *et al.*, 1181
 Pulmonary platelet aggregates associated with sudden death in man, H. Pirkle and P. Carstens, 1062
 Purines and pyrimidines in sediments from Lake Erie, W. van der Velden and A. W. Schwartz, 691
 "Purity" of science (*letter*), J. Stokes III, 399
 Puromycin: a questionable drug for studying the mechanism of thyroid calorigenesis in vivo, G. E. Bilder and W. D. Denckla, 1060
 Putnam, A. R., and W. B. Duke: Biological suppression of weeds: evidence for allelopathy in accessions of cucumber, 370
 Putz, G. R. *See* Mauk, A. G., *et al.*

Q

- Quality of chemical compounds (*letter*), G. Goldstein, 568
 QUAY, W. B., Pineal chemistry, *book review* of, 936
 Quigley, G. J. *See* Kim, S. H., *et al.*
 Quimby, K. L., *et al.*: Enduring learning deficits and cerebral synaptic malformation from exposure to 10 parts of halothane per million, 625

R

- Raaf, J. H., *et al.*: The Sloan-Kettering affair (*letters*), 734
 Raisz, L. G., *et al.*: Complement-dependent stimulation of prostaglandin synthesis and bone resorption, 789
 Raman spectroscopic investigation of gramicidin A' conformations, K. J. Rothschild and H. E. Stanley, 616
 Rando, R. R.: Chemistry and enzymology of k_{cat} inhibitors, 320
 Rapid asymptotic species accumulation in phytophagous insect communities: the pests of cacao, D. R. Strong, Jr., 1064
 Rathjens, G. W., and J. P. Ruina: Should we ban nuclear testing now? (*editorial*), 11
 Raw materials: energy and environmental constraints (*letter*), M. B. Bever, 99
 Reasenber, R. D. *See* Howard, H. T., *et al.*
 Recent sedimentary carbonates, J. D. MILLIMAN, *book review* by R. F. Schmalz, 938
 Recombinant DNA molecules (*letter*), S. Frances, 1001
 Reed, T. E.: Ethnic classification of Mexican-Americans, 283
 References and unreferences (*letter*), D. C. Blanchard, 1003
 Reid, B. L. *See* Coppleson, M., *et al.*
 REINECK, H.-E., and I. B. SINGH, Depositional sedimentary environments, *book review* of, 249
 Reiter, R. J., *et al.*: Melatonin: its inhibition of pineal antigonadotrophic activity in male hamsters, 1169
 Renal lysosomes: role in biogenesis of erythropoietin, R. M. Libbin *et al.*, 1174
 RENFREW, C. (Ed.), The explanation of culture change, *book review* of, 343

- Reoviruslike agent in stools: association with infantile diarrhea and development of serologic tests, A. Z. Kapikian *et al.*, 1049
Research News: chemistry and science in the next 100 years, 847; environment and the effects on brain development, 1035; Fermi National Accelerator Laboratory, 686; heterogeneous catalysis, 772; human biogeography, 134; immunology and the role of B₂-microglobulin, 428; !Kung hunter-gatherers, 932; leukemia, 48, 49; marijuana, 683, 775; mathematical problems and a committee to replace Hilbert, 430; Mercury and the Mariner 10 mission, 132; metrology and Avogadro's number, 1037; modeling the climate, 1145; moons of the solar system, 1147; nerve growth factor, 930; niobium-germanium is becoming a practical superconductor, 846; nitrogen fertilizer, 133; nitrogen fixation, 132; physical oceanography, 246; plate tectonics, 340; protein synthesis and its control, 517, 603; Riemann hypotheses, 429; seismological indicators of gas and oil, 515; skunks and their scent, 1146; stereology and a more quantitative microscopy, 243; undersea storms, 244; uranium enrichment by the laser process, 602
 Resource partitioning in ecological communities, T. W. Schoener, 27
 Reversal by L-dopa of impaired learning due to destruction of the dopaminergic nigro-neostriatal projection, A. P. Zis *et al.*, 960
 Reversal of morphine tolerance after medial thalamic lesions in the rat, H. Teitelbaum *et al.*, 449
 Reverse transcriptase in normal rhesus monkey placenta, R. J. Mayer *et al.*, 864
 Rhizoplane fibrils in wheat: demonstration and derivation, G. G. Leppard, 1066
 Rich, A. *See* Kim, S. H., *et al.*
 Richardson, J. B. *See* Venter, J. C., *et al.*
 Riggs, C. E., Jr. *See* Marcus, N. A.
 Ritz, C. L. *See* Bartell, L. S.
 Roberts, E., and K. Kuriyama (*meeting report*): Strategies for study of synaptic organization, 964
 Robinson, A. L. (*Research News*): heterogeneous catalysis, 772; metrology and Avogadro's number, 1037; niobium-germanium is becoming a practical superconductor, 846; stereology and a more quantitative microscopy, 243
 Robinson, W. E. *See* Yoshikami, S., *et al.*
 Roblin, R. *See* Berg, P., *et al.* *See also* Hammond, M. E., *et al.*
 Rocket ultraviolet spectrophotometry of Comet Kohoutek (1973f), P. D. Feldman *et al.*, 705
 Rod origin of prolonged afterimages, D. I. A. MacLeod and M. Hayhoe, 1171
 Rodriguez, W. J. *See* Kapikian, A. Z., *et al.*
 Roe, K.: The promises of technology (*letter*), 478
 Rollins, R. C.: *book review* of Taxonomy and ecology, 139
 Rose, J. C.: Who will teach the basic medical sciences?, 1022
 Rosenbaum, J. L. *See* Snell, W. J., *et al.*
 Ross, S. *See* Kapikian, A. Z., *et al.*
 ROSSETTI, C. *See* DE ALFARO, V., *et al.*
 Rossiter, M. W.: *book review* of Ellen Swallow, 1040
 Rothschild, K. J., and H. E. Stanley: Raman spectroscopic investigation of gramicidin A' conformations, 616
 Rouse, I.: *book review* of The explanation of culture change, 343
 Rubel, A. J.: Anthropology applied to health programs (*meeting report*), 545
 Ruddle, F. H. *See* Darlington, G. W., *et al.*
 Ruina, J. P. *See* Rathjens, G. W.

- Rumbaugh, D. M. *See* Mistler-Lachman, J. L., *et al.*
 Rural health care in Mexico?, L. Cañedo, 1131
 Rusiniak, K. W. *See* Garcia, J., *et al.*

S

- Saavedra, J. M. *See* Brownstein, M. J., *et al.*
 Saavedra, J. M., *et al.*: Octopamine: presence in single neurons of *Aplysia* suggests neurotransmitter function, 364
 Sackett, W. M., *et al.*: Kerogen recycling in the Ross Sea, Antarctica, 1045
 Said, S. I., *et al.*: Pulmonary alveolar hypoxia: release of prostaglandins and other humoral mediators, 1181
 Saida, K. *See* Mendell, J. R., *et al.*
 Salt fingers observed in the Mediterranean outflow, A. J. Williams 3rd, 941
 Sandberg, A. L. *See* Raisz, L. G., *et al.*
 SAUNDERS, W. H., JR., and A. F. COCKERILL, Mechanisms of elimination reactions, *book review* of, 248
 Saxena, B. B. *See* Haour, F.
 Scarpelli, D. G.: Mitogenic activity of sterculic acid, a cyclopropenoid fatty acid, 958
 Scatological origin of microvertebrate fossil accumulations, J. S. Mellett, 349
 Schatten, K. H. *See* Ness, N. F., *et al.*
 Scheaffer, R.: Unexplained or esoteric? (*letter*), 735
 Scheibel, A. B. *See* Scheibel, M.
 Scheibel, M., and A. B. Scheibel: *book review* of Essays on the nervous system, 1160
 Scheich, H.: Neuronal analysis of wave form in the time domain: midbrain units in electric fish during social behavior, 365
 Scheinberg, I. H., and G. W. Evans: Wilson's disease and copper-binding proteins, 1184
 Schiffman, S. S.: Physicochemical correlates of olfactory quality, 112
 Schmalz, R. F.: *book review* of Recent sedimentary carbonates, 938
 Schmidt, E. L. *See* Bohlool, B. B.
 Schoener, T. W.: Resource partitioning in ecological communities, 27
 Schoning, R. W. *See* Chapman, D., *et al.*
 Schour, L. *See* Faraci, R. P.
 SCHRÖDER, J. H. (Ed.), Genetics and mutagenesis of fish, *book review* of, 608
 Schroeder, M. *See* Chase, S. C., *et al.*
 Schubert, R. M. *See* Kupchan, S. M.
 Schwartz, A. W. *See* van der Velden, W.
 Schwartz, L. L., and S. Machlis: The creative process (*letters*), 1110
 Science and public policy (*letters*), S. Chapman *et al.*, 568
 Science and the quality of life (AAAS), A. Herschman, 1149
 Scientific methods in ethology (*letters*), G. Ankerl *et al.*, 814
 SCOTT, J. P., and E. C. SENAY (Eds.), Separation and depression, *book review* of, 689
 Scudder, J. D. *See* Ogilvie, K. W., *et al.*
 Sea otters: their role in structuring near-shore communities, J. A. Estes and J. F. Palmisano, 1058
 Second cat conference (*meeting report*), R. L. Eaton, 284
 Secular variations in the abundances of heavy nuclei in cosmic rays, N. Bhandari and J. T. Padia, 1043
 Seeman, N. C. *See* Kim, S. H., *et al.*
 Segelman, A. B., *et al.*: Possible non-inhibition of cellular-mediated immunity in marijuana smokers, 543
 Segelman, F. P. *See* Segelman, A. B., *et al.*
 Seidel, B. *See* Howard, H. T., *et al.*
 Selective alkylation: a biomimetic re-

- action of the antileukemic triptolides?, S. M. Kupchan and R. M. Schubert, 791
- Selective inhibitors of viral functions, W. A. CARTER (Ed.), *book review* by G. G. Jackson, 344
- Seliger, H. H., *et al.*: Long-lived chemiluminescence in cigarette smoke, 253
- Selvaggio, S. S. *See* Hammond, M. E., *et al.*
- SENAY, E. C. *See* SCOTT, J. P.
- Separation and depression, J. P. SCOTT and E. C. SENAY (Eds.), *book review* by M. A. Lipton, 689
- Sesplaukis, T. T. *See* Howard, H. T., *et al.*
- Setzer, H. W. *See* Monath, T. P., *et al.*
- Severino, E.: Wine capital (*letter*), 736
- Sex-associated antigens in mice and rats, W. H. Hildemann *et al.*, 962
- Sex pheromones and reproductive isolation of the lesser peachtree borer and the peachtree borer, J. H. Tumlinson *et al.*, 614
- Sex preselection (*letter*), M. S. Frankel, 1109
- Seybolt, J. F., and G. S. Duboff: Cancer detection (*letters*), 10
- Shadow of the sun (*letter*), A. L. Jones, 813
- Shapiro, I. I. *See* Counselman, C. C., III. *See also* Howard, H. T., *et al.*
- Shapley, D. (*News and Comment*): Dow Chemical and herbicide 2,4,5-T; Federation of American Scientists petitions for Soviet colleagues, 769; House cuts funds for binary weapons, 679; jury selection and social scientists, 1033; Law of the Sea Conference and U.S. ocean bills, 926; Middle East studies, 42; Moscow scientists, 47, 238; National Academy of Sciences refuses photo, 239; Office of Technology Assessment, 512; science and a media event, 769; Watergate campaigners and manipulation, 124 (*erratum*, 340), 677; weather modification research, 1142
- Sheppard, W. A.: *book review* of Fluorine in organic chemistry, 937
- Sherman, S. M.: Visual fields of cats with cortical and tectal lesions, 355
- Shimkin, M. B.: Cancer chemotherapy (*letter*), 99
- Shipley, G. G. *See* Small, D. M.
- Shirley, D. L. *See* Howard, H. T., *et al.*
- SHOPSIN, B. *See* GERSHON, S.
- Should we ban nuclear testing now? (*editorial*), G. W. Rathjens and J. P. Ruina, 11
- Shows, T. B. *See* Lalley, P. A.
- Shutler, R., Jr. *See* Dickinson, W. R.
- Sieker, L. C.: *book review* of Iron-sulfur proteins, 344
- Siggins, G. R. *See* Bloom, F. E., *et al.*
- Sikora, E. *See* Hotchin, J., *et al.*
- Silberberg, A., and N. Adler: Modulation of the copulatory sequence of the male rat by a schedule of reinforcement, 374
- Silurian trilete spores and spore tetrads from Gotland: their implications for land plant evolution, J. Gray *et al.*, 260
- Silvers, W. K. *See* Hildemann, W. H., *et al.*
- Simmons, H. A. *See* Raisz, L. G., *et al.*
- Simpson, B. B.: Glacial migrations of plants: island biogeographical evidence, 698
- SIMPSON, D. R. *See* MCCOWN, B. H.
- Simpson, J. A., *et al.*: Electrons and protons accelerated in Mercury's magnetic field, 160
- Simpson, J. R. *See* Denmead, O. T., *et al.*
- SINGH, I. B. *See* REINCEK, H.-E.
- Siscoe, G. L. *See* Ogilvie, K. W., *et al.*
- Skinner, B. F.: Behavior modification (*letter*), 813
- Sklar, J., and B. Berkov: Abortion, illegitimacy, and the American birth rate, 909
- Slawson, A. W. *See* Allen, A. D., *et al.*
- Sloan-Kettering affair, The (*letters*), J. H. Raaf *et al.*, 734
- Slotnick, B. M., and H. M. Katz: Olfactory learning-set formation in rats, 796
- Small, D. M., and G. G. Shipley: Physical-chemical basis of lipid deposition in atherosclerosis, 222
- Smith, A. K.: *book review* of The maturing of American science, 519
- Smith, R. G. *See* Mayer, R. J., *et al.*
- Smoking behavior, W. L. DUNN, JR. (Ed.), *book review* by J. H. Jaffe, 1039
- Snell, W. J., *et al.*: Assembly of chick brain tubulin onto isolated basal bodies of *Chlamydomonas reinhardtii*, 357
- Social origins of American scientists and scholars, K. R. Hardy, 497
- Socioeconomic achievements of U.S. men, 1962 to 1972, R. M. Hauser and D. L. Featherman, 325
- Sodium: stimulus for puddling behavior by tiger swallowtail butterflies, *Papilio glaucus*, K. Arms *et al.*, 372
- Sokal, R. R.: Classification: purposes, principles, progress, prospects, 1115
- Solar chromosphere, The, R. J. BRAY and R. E. LOUGHHEAD, *book review* by O. R. White, 938
- Solar energy absorption (*letters*), M. F. Merriam *et al.*, 101
- Solar energy by photosynthesis: manganese complex photolysis, S. R. Cooper and M. Calvin, 376
- Solar heating and cooling (*letter*), J. I. Yellott, 480
- Solar power (*letter*), P. E. Damon, 478
- Solomon, K. R., and W. F. Walker: Juvenile hormone synergists: a possible case of hasty conclusion?, 461
- Sonnenfeld, P. *See* Hudec, P. P.
- Stability of catecholamines immobilized on glass beads, J. C. Venter *et al.*, 459
- Stanford, J. A., and A. R. Gaufin: Hyporheic communities of two Montana rivers, 700
- Stanley, H. E. *See* Rothschild, K. J.
- Staples, R. E.: Teratogens and the Delaney Clause (*letter*), 813
- STECKER, F. W., and J. I. TROMBKA (Eds.), Gamma-ray astrophysics, *book review* of, 607
- Steele, J. H.: *book review* of Biological oceanographic processes, 54
- Steinhart, C. E. *See* Chapman, D., *et al.*
- Steinhart, J. S. *See* Chapman, D., *et al.*
- Stellar motion survey by automation, W. J. Luyten, 351
- Stelzried, C. T. *See* Howard, H. T., *et al.*
- Sternberg, S. S. *See* Coppleson, M., *et al.*
- Stetten, D., Jr.: Targets (*editorial*), 209
- STEWART, T. D.: The people of America, *book review* of, 850
- Stokes, J., III: "Purity" of science (*letter*), 399
- Stolarski, R. S. *See* Cicerone, R. J., *et al.*
- Storer, N. W.: *book review* of Toward a political sociology of science, 137
- Stout, J. H.: Helicoidal crack propagation in aluminous orthoamphiboles, 251
- Strategic arms race slowdown through test limitations, G. B. Kistiakowsky and H. F. York, 403
- Strategies for study of synaptic organization (*meeting report*), E. Roberts and K. Kuriyama, 964
- Stratospheric ozone destruction by man-made chlorofluoromethanes, R. J. Cicerone *et al.*, 1165
- Streamflow greatly reduced by converting deciduous hardwood stands to pine, W. T. Swank and J. E. Douglass, 857
- Strom, R. G. *See* Murray, B. C., *et al.*
- Strong, D. R., Jr.: Rapid asymptotic species accumulation in phytophagous insect communities: the pests of cacao, 1064
- Subsidence of Venice: predictive difficulties, J. T. Christian and R. C. Hirschfeld, 1185
- Successful women in the sciences, R. B. KUNDSIN (Ed.), *book review* by A. M. Briscoe, 1040
- Suciu-Foca, N. *See* Segelman, A. B., *et al.*
- Suddath, F. L. *See* Kim, S. H., *et al.*
- Sundharadas, G. *See* Ballou, B., *et al.*
- Suomi, V. *See* Murray, B. C., *et al.*
- Superconductivity: large-scale applications, R. A. Hein, 211
- Surface electronic properties of tungsten, tungsten carbide, and platinum, J. E. Houston *et al.*, 258
- Sussman, J. L. *See* Kim, S. H., *et al.*
- Swank, W. T., and J. E. Douglass: Streamflow greatly reduced by converting deciduous hardwood stands to pine, 857
- Sweetnam, D. N. *See* Howard, H. T., *et al.*
- Symbiosis in the sea, W. B. VERNBERG (Ed.), *book review* by E. R. Noble, 608
- SZALAI, A. (Ed.), The use of time, *book review* of, 605

T

- Takacs, P. Z. *See* Feldman, P. D., *et al.*
- Takagi, T. *See* Doolittle, R. F., *et al.*
- TAKAHASHI, M. *See* PARSONS, T. R.
- Taketa, F. *See* Mauk, A. G., *et al.*
- Tanz, R. D.: Copyright laws (*letter*), 735
- Targets (*editorial*), D. Stetten, Jr., 209
- Taxonomy and ecology, V. H. HEYWOOD (Ed.), *book review* by R. C. Rollins, 139
- Tecce, J. J., and J. O. Cole: Amphetamine effects in man: paradoxical drowsiness and lowered electrical brain activity (CNV), 451
- Technology as a deterrent to dehumanization (*editorial*), R. Davis, 737
- Teitelbaum, H., *et al.*: Reversal of morphine tolerance after medial thalamic lesions in the rat, 449
- Temperature regulation in mammals and other vertebrates, J. BLIGH, *book review* by E. R. Nadel, 688
- Teratogens and the Delaney Clause (*letter*), R. E. Staples, 813
- Testosterone induces "splitting" of circadian locomotor activity rhythms in birds, E. Gwinner, 72
- Thermal structure of the lithosphere: a petrologic model, I. D. MacGregor and A. R. Basu, 1007
- Thermochemical hydrogen generation, R. H. Wentorf, Jr., and R. E. Hanne-man, 311
- Thermoregulation in endothermic insects, B. Heinrich, 747
- Thiersch, J. B. *See* Mann, T., *et al.*
- Thimann, K. V.: Herbicides in Vietnam (*letter*), 207
- Thomas, G.: Industrial energy conservation: dual incentives (*letter*), 480
- Three-dimensional tertiary structure of yeast phenylalanine transfer RNA, S. H. Kim *et al.*, 435
- Thyrotropin-releasing hormone in specific nuclei of rat brain, M. J. Brownstein *et al.*, 267
- Thyrotropin-releasing hormone: regional distribution in rat brain, A. Winokur and R. D. Utiger, 265
- Tinbergen, N.: Ethology and stress diseases, 20
- Tipper, D. J., and G. G. Khachatourians: *book review* of Bacterial membranes and walls, 779
- Tooker, E.: Ely S. Parker (*letter*), 1001
- Topology of the outer segment membranes of retinal rods and cones revealed by a

- fluorescent probe, S. Yoshikami *et al.*, 1176
- Toward a political sociology of science, s. s. BLUME, *book review* by N. W. Storer, 137
- Toxic polyneuropathy produced by methyl *N*-butyl ketone, J. R. Mendell *et al.*, 787
- Toxicity in sponges and holothurians: a geographic pattern, G. J. Bakus and G. Green, 951
- Tragedy of the Sahel commons, The (*letter*), V. R. Potter, 813
- Transformation of chick embryo neuroretinal cells by Rous sarcoma virus in vitro: induction of cell proliferation, B. Pessac and G. Calothy, 709
- Trask, N. *See* Murray, B. C., *et al.*
- Treatise on solid state chemistry, N. B. HANNAY (Ed.), *book review* by P. Trucano, 689
- TROMBKA, J. I. *See* STECKER, F. W.
- Troughton, J. H., *et al.*: Photosynthetic mechanisms and paleoecology from carbon isotope ratios in ancient specimens of *C₃* and CAM plants, 610
- Trucano, P.: *book review* of Treatise on solid state chemistry, 689
- Trump, B. F. *See* Penttila, A.
- Tucker, J. H. *See* Cook, P. M., *et al.*
- Tucker, S. C.: Dedifferentiated guard cells in magnoliaceous leaves, 445
- Tumlinson, J. H., *et al.*: Sex pheromones and reproductive isolation of the lesser peachtree borer and the peachtree borer, 614
- Tunable laser fluorescence method for product state analysis, R. N. Zare and P. J. Dagdigan, 739
- Tuned-receptor paradigm, The, P. Hillman and G. S. Wasserman, 629
- Turner, B. L., II: Prehistoric intensive agriculture in the Mayan lowlands, 118
- Tuttle, R. C., and A. R. Loeblich III: Genetic recombination in the dinoflagellate *Cryptocodinium dohnii*, 1061
- Tversky, A., and D. Kahneman: Judgment under uncertainty: heuristics and biases, 1124
- Two digit inflation (*editorial*), P. H. Abelson, 1005
- Tyler, G. L. *See* Howard, H. T., *et al.*
- Type 2 hyperprolinemia: absence of Δ^1 -pyrroline-5-carboxylic acid dehydrogenase activity, D. L. Valle *et al.*, 1053
- U**
- Unexplained or esoteric? (*letter*), R. Sheaffer, 735
- Unfettered mother (*letter*), K. Arms, 9
- University isotope separator at Oak Ridge: the UNISOR consortium, J. H. Hamilton, 819
- Uphoff, D. E. *See* Jacobs, B. B.
- Uranium enrichment (*letter*), C. D. Cantrell, 1109
- Urban growth and decline: San Jose and St. Louis in the 1960's, P. A. Morrison, 757
- Use of grant funds (*letter*), M. L. Wolbarsht, 399
- Use of time, The, A. SZALAI (Ed.), *book review* by H. Hyman, 605
- Utiger, R. D. *See* Brownstein, M. J., *et al.* *See also* Winokur, A.
- V**
- Valle, D. L., *et al.*: Type 2 hyperprolinemia: absence of Δ^1 -pyrroline-5-carboxylic acid dehydrogenase activity, 1053
- van der Velden, W., and A. W. Schwartz: Purines and pyrimidines in sediments from Lake Erie, 691
- Vaughan, M. K. *See* Reiter, R. J., *et al.*
- Vedder, J. F., *et al.*: A chondrule: evidence of energetic impact unlikely, 378
- Velikovskiy forum (*letter*), I. Michelson, 207
- Venter, J. C., *et al.*: Stability of catecholamines immobilized on glass beads, 459
- VERNBURG, W. B. (Ed.), Symbiosis in the sea, *book review* of, 608
- Vincent, J. D. *See* Arnauld, E., *et al.*
- Visual fields of cats with cortical and tectal lesions, S. M. Sherman, 355
- von Frisch, K.: Decoding the language of the bee, 663
- Von Glasersfeld, E. C. *See* Mistler-Lachman, J. L., *et al.*
- Vreim, C. *See* Said, S. I., *et al.*
- W**
- Wachtel, S. S. *See* Hildemann, W. H., *et al.*
- Wade, N. (*News and Comment*): Currie as world's largest R & D manager, 41; genetic manipulation and temporary embargo on research, 332; green revolution and world food, 844; Heilbroner and a portrait of a world without science, 598; Missile Site Radar, 1137; Sahelian drought, 234; science and its critics, 925
- Walker, W. F. *See* Solomon, K. R.
- Wallace, P. (*Research News*): Complex environments: effects on brain development, 1035
- Walling, C.: *book review* of Free-radical chemistry, 520
- Walpole, P. H. *See* Simpson, J. A., *et al.*
- Walsh, J. (*News and Comment*): British reactor for their nuclear power program, 511; Fermi National Accelerator Laboratory, 766, 841; French set quota for foreign medical students, 595; Killian committee urges advisory council in White House, 39; National Science Foundation gets a record budget, 1030; Nixon Administration, 675; particle physics postdoctorates, 842; science at the State Department, 924; science policy hearings, 40; UN conferences, 1143
- Walters, S. *See* Cicerone, R. J., *et al.*
- WALTON, A. G., and J. BLACKWELL, Biopolymers, *book review* of, 851
- WALTON, J. C. *See* NONHEBEL, D. C.
- Wang, A. H. J. *See* Kim, S. H., *et al.*
- Wasserman, G. S. *See* Hillman, P.
- Wassersug, R. J., and H. M. Wilbur: Evolution of anuran life cycles, 377
- "Wasted" water (*letter*), J. T. Woolley, 1001
- Water and carbon in rusty lunar rock 66095, I. Friedman *et al.*, 346
- Water pollution (*letters*), F. L. Parker and Z. F. Danec, 568
- Watergate tape erasure (*letter*), C. C. Counselman III and I. I. Shapiro, 813
- Watson, J. D. *See* Berg, P., *et al.*
- Webb, W. W. *See* Dragsten, P. R., *et al.*
- WEBSTER, D., and M. WEBSTER, Comparative vertebrate morphology, *book review* of, 138
- WEBSTER, M. *See* WEBSTER, D.
- Weiss, H. *See* Mendell, J. R., *et al.*
- Weissman, S. *See* Berg, P., *et al.*
- Wells, P. V. *See* Troughton, J. H., *et al.*
- Wennerberg, C.: Wind, waves, and women (*letter*), 102
- Wentorf, R. H., Jr., and R. E. Hanneman: Thermochemical hydrogen generation, 311
- Whang, Y. C. *See* Ness, N. F., *et al.*
- Wharton, C. R.: Education and the job market (*editorial*), 571
- What we have yet to learn (*letter*), S. S. Iyer, 400
- Whelan, H. T. *See* Mauk, A. G., *et al.*
- White, O. R.: *book review* of The solar chromosphere, 938
- Who will teach the basic medical sciences?, J. C. Rose, 1022
- Whybrow, P. C.: *book review* of Depression, 433
- Wiegert, R. G.: Competition: a theory based on realistic, general equations of population growth, 539
- Wilbur, H. M. *See* Wassersug, R. J.
- Wilkinson, G.: The long search for stable transition metal alkyls, 109
- WILLEY, G. R. (Ed.), Archaeological researches in retrospect, *book review* of, 849
- Williams, A. J., 3rd: Salt fingers observed in the Mediterranean outflow, 941
- Wilson, A. C. *See* Maxson, L. R.
- Wilson's disease and copper-binding proteins, I. H. Scheinberg and G. W. Evans, 1184
- Wind power (*letter*), E. W. Peterson, 480
- Wind, waves, and women (*letter*), C. Wennerberg, 102
- Wine capital (*letter*), E. Severino, 736
- Winokur, A., and R. D. Utiger: Thyrotropin-releasing hormone: regional distribution in rat brain, 265
- Wiren, H. N.: Human rights (*letter*), 570
- Wisdom shortage (*letter*), D. S. Gillmor, 649
- Wohlhieter, J. A.: *book review* of Bacterial plasmids, 780
- Wolbarsht, M. L.: Use of grant funds (*letter*), 399
- World population: world responsibility (*editorial*), M. Mead, 1113
- Women and success, R. B. KUNDSIN (Ed.), *book review* by A. M. Briscoe, 1040
- Wood, A. W., and A. H. Conney: Genetic variation in coumarin hydroxylase activity in the mouse (*Mus musculus*), 612
- Wood, G. E. *See* Howard, H. T., *et al.*
- Wood, J. H., and R. E. Tessel: Fenfluramine: amphetamine congener that fails to maintain drug-taking behavior in the rhesus monkey, 1067
- Woodall, J. *See* Hotchin, J., *et al.*
- Woodruffia metabolica: An exception to the rule of desmodoxy, T. K. Golder, 57
- Woolley, J. T.: "Wasted" water (*letter*), 1001
- Wurtman, R. J., *et al.*: Brain catechol synthesis: control by brain tyrosine concentration, 183
- Wyatt, R. G. *See* Kapikian, A. Z., *et al.*
- Y**
- Yeates, C. M. *See* Ogilvie, K. W., *et al.*
- Yellott, J. I.: Solar heating and cooling (*letter*), 480
- Yonce, C. E. *See* Tumlinson, J. H., *et al.*
- Yong, M. S. *See* Venter, J. C., *et al.*
- York, H. F. *See* Kistiakowsky, G. B.
- Yoshida, T. *See* Said, S. I., *et al.*
- Yoshikami, S., *et al.*: Topology of the outer segment membranes of retinal rods and cones revealed by a fluorescent probe, 1176
- Z**
- Zare, R. N., and P. J. Dagdigan: Tunable laser fluorescence method for product state analysis, 739
- Zee, A.: *book review* of Currents in hadron physics, 607
- Zimmer, R. L. *See* Banta, W. C., *et al.*
- Zimmerberg, B., *et al.*: Neurochemical correlate of a spatial preference in rats, 623
- Zinder, N. D. *See* Berg, P., *et al.*
- Zis, A. P., *et al.*: Reversal by L-dopa of impaired learning due to destruction of the dopaminergic nigro-neostriatal projection, 960
- Zygielbaum, A. I. *See* Howard, H. T., *et al.*