
SCIENCE

Index to Volume 183

January–March 1974

Editorial Board

ALFRED BROWN
JAMES F. CROW
HERBERT S. GUTOWSKY
N. BRUCE HANNAY
DONALD KENNEDY
SEYMOUR S. KETY
DANIEL E. KOSHLAND, JR.

DONALD LINDSLEY
RUTH PATRICK
FRANK PRESS
FRANK W. PUTNAM
MAXINE F. SINGER
RAYMOND H. THOMPSON
GORDON WOLMAN

Editorial Staff

WILLIAM BEVAN
Publisher

HANS NUSSBAUM
Business Manager

PHILIP H. ABELSON
Editor

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>
4120	11 January	1-132	4126	22 February	689-788
4121	18 January	133-240	4127	1 March	789-888
4122	25 January	241-356	4128	8 March	889-1020
4123	1 February	357-456	4129	15 March	1021-1120
4124	8 February	457-572	4130	22 March	1121-1236
4125	15 February	573-688	4131	29 March	1237-1328

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

A

- AAAS meetings (*editorial*), P. H. Abelson, 369
- Aaronson, S. A., and C. Y. Dunn: High-frequency C-type virus induction by inhibitors of protein synthesis, 422
- Abelson, P. H. (*editorials*): AAAS meetings, 369; Academic science and industry, 1251; No easy way out of energy crisis, 475; Out of the energy crunch by 1976, 707; Pioneer 10 mission to Jupiter, 261
- and R. Gillette (*News and Comment*): oil shortage, 183
- Abert, J. G., *et al.*: The economics of resource recovery from municipal solid waste, 1052
- Abrell, J. W. *See* Lewis, B. J., *et al.*
- Abuki, H. *See* Chino, H., *et al.*
- Academic science and industry (*editorial*), P. H. Abelson, 1251
- Acanthaster*: tests of the time course of coral destruction, W. A. Newman and T. F. Dana, 103
- Acetylenic analog of arachidonate that acts like aspirin on platelets, A. L. Willis *et al.*, 327
- Acton, A. B. *See* Lacalli, T.
- Adams, J. B. *See* Pieters, C., *et al.*
- Adelson, J. W., and S. S. Rothman: Selective pancreatic enzyme secretion due to a new peptide called chymodenin, 1087
- Adenosine 3',5'-monophosphate: inhibition of complement-mediated cell lysis, M. Kaliner and K. F. Austen, 659
- Adey, W. R. *See* Noda, H.
- Adler, N. T.: *book review* of Motivation of human and animal behavior, 191
- Advantages of surface mining (*letter*), D. L. Kuck, 28
- Aerosols and climate, P. Chylek and J. A. Coakley, Jr., 75
- Africa counts, C. Zaslavsky, *book review* by M. Cole, 741
- Age determination of burned flint by a thermoluminescent method, H. Y. Göksu *et al.*, 651
- Aging increases susceptibility of mouse skin to DMBA carcinogenesis independent of general immune status, P. Ebbesen, 217
- Agnew, W. G.: Reducing automotive emissions (*letter*), 254
- Aid to Indochina (*letter*), S. Uk, 469
- Air pollutants study (*letter*), R. A. McCormick, 1036
- Aksay, I. A., and J. A. Pask: The silicallumina system: stable and metastable equilibria at 1.0 atmosphere, 69
- Alfred Binet, T. H. Wolf, *book review* by R. D. Tuddenham, 1071
- Allen, A. O.: Radiation chemistry of condensed phases: report of a joint Japan-United States seminar (*meeting report*), 881
- Alter, H. *See* Abert, J. G., *et al.*
- Alter, M. *See* Kahana, E., *et al.*
- Alvarez, J. M. *See* Kinard, W. H., *et al.*
- Ambiavagar, M. *See* Chalon, J., *et al.*
- Amino acid sequence of rabbit muscle aldolase and the structure of the active center, C. Y. Lai *et al.*, 1204
- Amorphous semiconductor switching in melanins, J. McGinness *et al.*, 853
- Amphetamine in human plasma: a sensitive and specific enzymatic assay, D. S. Kreuz and J. Axelrod, 420
- Analysis of neutrality in protein polymorphism, W. J. Ewens *et al.*, 446
- ANDERSON, D. T.: Embryology and phylogeny in annelids and arthropods, *book review* of, 1073
- Anderson, J. D. *See* Howard, H. T., *et al.*
- Anderson, J. D., *et al.*: Gravitational parameters of the Jupiter system from the Doppler tracking of Pioneer 10, 322
- Anderson, J. J. B. *See* Talmage, R. V.
- ANDERSON, J. R., and G. H. BOWER, Human

- associative memory, *book review* of, 1283
- Anderson, N. G.: Science and management techniques, 726
- ANDREANO, R. L. *See* WEISBROD, B. A., *et al.*
- ANDREWS, J. T.: *book review* of Periglacial processes and environment, 1285
- Antireceptor antiserum causes specific inhibition of reactivity to rat histocompatibility antigens, T. J. McKearn, 94
- Apomorphine: modification of its hyperthermic effect on rabbits by *p*-chlorophenylalanine, R. M. Quock and A. Horita, 539
- Arachidonic acid causes sudden death in rabbits, M. J. Silver *et al.*, 1085
- ARECCHI, F. T., and E. O. SCHULZ-DUBOIS (Eds.), *Laser handbook, book review* of, 843
- Arias, I. M. *See* Mahoney, P., *et al.*
- Armand, J.-P. *See* Nahas, G. G., *et al.*
- Armstrong, C. M. *See* Bezanilla, F.
- Armstrong, R. A., *et al.*: Dynamics of expanding inhibitory fields, 444
- Artificial vision for the blind: electrical stimulation of visual cortex offers hope for a functional prosthesis, W. H. Dobelle *et al.*, 440
- Asbridge, J. R. *See* Bridge, H. S., *et al.*
- Ashton, G. C. *See* DeFries, J. C., *et al.*
- Association Affairs: AAAS annual meeting, 104, 222, 340, 767; invitation for suggestions on candidates, 494; NOVA: program summaries of new science TV series, 1216
- Atlas of primate gross anatomy, An, D. R. SWINDLER and C. D. WOOD, *book review* by R. Tuttle, 192
- Atmospheric concentrations and sources of trace metals at the South Pole, W. H. Zoller *et al.*, 198
- Atmospheric effects of pollutants, P. V. Hobbs *et al.*, 909
- Atoms and molecules in astrophysics, T. R. CARSON and M. J. ROBERTS (Eds.), *book review* by A. Dalgarno, 405
- Auditory periphery, The, P. DALLOS, *book review* by J. J. Zwislacki, 845
- Auerbach, R., and J. Roethle: Tolerance to heterologous erythrocytes, 332
- Auroral photography from a satellite, E. H. Rogers *et al.*, 951
- Austen, K. F. *See* Kaliner, M.
- Austin, C. R.: *book review* of Comparative morphology of the mammalian ovary, 948
- Australia antigen: detection and transmission in shellfish, P. Mahoney *et al.*, 80
- Autogenous regulation of gene expression, R. F. Goldberger, 810
- Autoimmune encephalomyelitis: activation of thymus lymphocytes against syngeneic brain antigens in vitro, S. Orgad and I. R. Cohen, 1083
- Automotive emission standards and fuel economy (*letter*), R. J. Naumann, 595
- Axelrod, J. *See* Kreuz, D. S.
- Aziz, K. M. S.: Diarrhea toxin obtained from a waterbloom-producing species, *Microcystis aeruginosa* Kützling, 1206

B

- BACHRACH, U.: Function of naturally occurring polyamines, *book review* of, 1075
- "Back-to-the-wall" effect continues (*letter*), W. Simon, 150
- Bacteriophage structure: determination of head-tail symmetry mismatch for *Caulobacter crescentus* phage ϕ CbK, J. A. Lake and K. R. Leonard, 744
- Bailey, J. V. *See* Pinsky, L. S., *et al.*
- Bair, W. J., and R. C. Thompson: Plutonium: biomedical research, 715
- Baird, M. B. *See* Samis, H. V., *et al.*
- Bakay, L. *See* Parrish, R. G., *et al.*
- Baker, D. N. *See* Van Allen, J. A., *et al.*
- Baker, L. *See* Gehrels, T., *et al.*
- Baker, R. *See* Gehrels, T., *et al.*

- Bakken, G. S., *et al.*: Linearized heat transfer relations in biology, 976
- BALDWIN, R. E. *See* WEISBROD, B. A., *et al.*
- Bame, S. J. *See* Bridge, H. S., *et al.*
- Bandler, R. J., Jr., and J. P. Flynn: Neural pathways from thalamus associated with regulation of aggressive behavior, 96
- Bandoni, R. J., and R. E. Koske: Monolayers and microbial dispersal, 1079
- Barobiology and the experimental biology of the deep sea, R. W. BRAUER (Ed.), *book review* by H. W. Jannasch, 1074
- Barr, A. *See* Villareale, M., *et al.*
- BARRETT, J. *See* LEMBERG, R.
- Barstad, P., *et al.*: Immunoglobulin structure: amino terminal sequences of mouse myeloma proteins that bind phosphorylcholine, 962
- Bartl, P. *See* Skalka, A., *et al.*
- BARTLETT, M. S., and R. W. HORN (Eds.), The mathematical theory of the dynamics of biological populations, *book review* of, 1188
- Basmajian, J. V. *See* Smith, H. M., Jr., *et al.*
- Bassler, T. J.: Marathonning (*letter*), 256
- Bateson, P. P. G.: *book review* of Imprinting, 740
- B-cell alloantigens determined by the H-2 linked Ir region are associated with mixed lymphocyte culture stimulation, E. C. Lozner *et al.*, 757
- Beatty, J., *et al.*: Operant control of occipital theta rhythm affects performance in a radar monitoring task, 871
- Behannon, K. W. *See* Ness, N. F., *et al.*
- Behavioral embryology, G. GOTTLIEB (Ed.), *book review* by J. S. Rosenblatt, 948
- Belton, M. J. S. *See* Broadfoot, A. L., *et al.*
- *See also* Murray, B. C., *et al.*
- Bendich, A. A., *et al.*: Penetration of somatic mammalian cells by sperm, 857
- Benitez, J. T. *See* Lynn, G. E.
- Benjamin, C. G.: Soaring prices and sinking sales of science monographs, 282
- Bensinger, R. E., *et al.*: Guanylate cyclase: inhibition by light in retinal photoreceptors, 86
- Benson, R. E. *See* Pinsky, L. S., *et al.*
- Berendzen, R., and A. H. Hammond: Copernican observations (*letters*), 469
- Berger, E. *See* Eaton, J. W., *et al.*
- Berger, M. *See* Rossini, A. A., *et al.*
- Berger, R., and R. Protsch: Radiocarbon dates for earliest domesticated animals from Europe and the Near East, 1100
- Bergstrom, W. H. *See* Villareale, M., *et al.*
- Bernheisel, J. F. *See* Abert, J. G., *et al.*
- Bernstein, R. L.: Mesoscale ocean eddies in the North Pacific: westward propagation, 71
- Beroza, M. *See* Cameron, E. A., *et al.*
- Beroza, M., *et al.*: Sex pheromones: (E,E)-8,10-dodecadien-1-ol in the codling moth, 89
- Beryllium disease (*meeting report*), J. D. Stoeckle and T. Mancuso, 449
- Best, G. *See* Gehrels, T., *et al.*
- Best, P. M. *See* Kerrick, W. G. L.
- Beta cell protection to alloxan necrosis by anomers of D-glucose, A. A. Rossini *et al.*, 424
- Bewley, T. A.: *book review* of Structure-activity relationships of protein and polypeptide hormones, 193
- Bezanilla, F., and C. M. Armstrong: Gating currents of the sodium channels: three ways to block them, 753
- Bhalla, R. C. *See* Korenman, S. G., *et al.*
- BICKEL, L.: Rise up to life, *book review* of, 505
- Bidleman, T. F., and C. E. Olney: Chlorinated hydrocarbons in the Sargasso Sea atmosphere and surface water, 516
- Biederman-Thorson, M. *See* Thorson, J.
- Bierl, B. A. *See* Beroza, M., *et al.*
- Binford, C. H. *See* Storrs, E. E., *et al.*
- Biological cycles for toxic elements in the environment, J. M. Wood, 1049

- Biological responses of *Atta texana* to its alarm pheromone and the enantiomer of the pheromone, R. G. Riley *et al.*, 760
- Biology of Coccinellidae, I. HODEK, *book review* by K. S. Hagen, 299
- Biology of the Indian Ocean, B. ZEITZSCHEL (Ed.), *book review* by J. Steele, 405
- Biosynthesis of α -ecdysone by prothoracic glands in vitro, H. Chino *et al.*, 529
- Biotic energy flows (*letter*), G. M. Woodwell, 367
- Biotransformation and fermentations (*meeting report*), J. P. Rosazza, 1217
- BISHOP, J. E., Linnology of a small Malaysian river Sungai Gombak, *book review* of, 65
- Bjorkholm, P. *See* Gorenstein, P., *et al.*
- Blennman, C. *See* Gehrels, T., *et al.*
- Bloom, A. D.: *book review* of Genetics of sex differentiation, 66
- Blumberg, B. S. *See* Mahoney, P., *et al.*
- Bond, J. J. *See* Power, J. F., *et al.*
- Bondinell, W. E. *See* Hoffmann, D., *et al.*
- Bonds and bands in semiconductors, J. C. PHILLIPS, *book review* by J. J. Hopfield, 403
- Borenfreund, E. *See* Bendich, A., *et al.*
- Bormann, F. H.: Energy and environmental costs (*letter*), 1246
- Bornstein, M. M. B. *See* Fry, J. M., *et al.*
- BOWER, G. H. *See* ANDERSON, J. R.
- Boyd, W. C. *See* Matsubara, S.
- Braham, J. *See* Kahana, E., *et al.*
- Brain hyaluronidase: changes in activity during chick development, J. R. Polansky *et al.*, 862
- BRAUER, R. W. (Ed.), Barobiology and the experimental biology of the deep sea, *book review* of, 1074
- Bressler, R. *See* Brumbaugh, P. F., *et al.*
- Bridge, H. S., *et al.*: Observations at Venus encounter by the plasma science experiment on Mariner 10, 1293
- Broadfoot, A. L., *et al.*: Ultraviolet observations of Venus from Mariner 10 preliminary results, 1315
- Brown, H.: Scholarly exchanges with the People's Republic of China, 52. *See also* Kuhn, U. S. G., III
- Brumbaugh, P. F., *et al.*: Radioreceptor assay for $1\alpha,25$ -dihydroxyvitamin D₃, 1089
- Brunhes epoch: isotopic paleotemperatures and geochronology, The, C. Emiliani and N. J. Shackleton, 511
- Brunn, D. L. *See* Howard, H. T., *et al.*
- Brush, S. G.: Should the history of science be rated X?, 1164
- Bumblebee *Oceli* and navigation at dusk, W. G. Wellington, 550
- Burchfield, H. P. *See* Storrs, E. E., *et al.*
- Burt, W.: *book review* of North Sea science, 1286
- Butzer, K. W.: *book review* of Geomorphology in deserts, 1286
- C**
- Cahill, G. F., Jr. *See* Rossini, A. A., *et al.*
- Cain, D. L. *See* Kliore, A., *et al.*
- Calcification on an unstable substrate: marginal growth in the mollusk *Pecten diegensis*, G. R. Clark II, 968
- Calcium absorption and calcium-binding protein synthesis: *Solanum malacoxylon* reverses strontium inhibition, R. H. Wasserman, 1092
- Calcium and phosphorus metabolism, J. T. IRVING, *book review* by H. E. Harrison, 845
- Calcium ion release in mechanically disrupted heart cells, W. G. L. Kerrick and P. M. Best, 435
- Callaway, E. *See* Harris, P. R.
- Cameron, E. A., *et al.*: Disruption of gypsy moth mating with microencapsulated disparlure, 972
- Cancer and adventists (*letter*), R. L. Phillips, 471
- CANNY, M. J., Phloem translocation, *book review* of, 68
- Cantharidin: potent feeding deterrent to insects, J. E. Carrel and T. Eisner, 755
- Capron, A. M., and A. Etzioni: Protection of human subjects (*letters*), 797
- Carbon dioxide hydrate and floods on Mars, D. J. Milton, 654
- Carbon fixation and isotope discrimination by a crassulacean plant: dependence on the photoperiod, J. C. Lerman and O. Queiroz, 1207
- Carbonic anhydrase and osteoclasts: localization by labeled inhibitor autoradiography, C. V. Gay and W. J. Mueller, 432
- Carcinogenicity of methylchrysenes, D. Hoffmann *et al.*, 215
- Carew, T. E. *See* Sniderman, A. D., *et al.*
- Carlson, H. J.: Science: challenges of today—outlook for the future (*Association Affairs*), 104
- Carlson, R. W. *See* Judge, D. L.
- CARLSÖÖ, S., How man moves, *book review* of, 649
- Carmichael, K. *See* Kulik, J. A., *et al.*
- Carpenter, F. L.: Torpor in an Andean hummingbird: its ecological significance, 545
- Carrel, J. E., and T. Eisner: Cantharidin: potent feeding deterrent to insects, 755
- Carson, H. L.: *book review* of The evolution of melanism, 67
- CARSON, T. R., and M. J. ROBERTS (Eds.), Atoms and molecules in astrophysics, *book review* of, 405
- Carter, L. J. (*News and Comment*): boll weevil and its eradication, 494; floating nuclear plants, 1063; land use legislation, 1176; off-road vehicles in California Desert, 396, 936
- Casagrande, J. T. *See* Menck, H. R., *et al.*
- Casida, J. E., *et al.*: Toxaphene insecticide: a complex biodegradable mixture, 520
- Casparian strip as a barrier to the movement of lanthanum in corn roots, The, G. Nagahashi *et al.*, 670
- CASPERSSON, T., and L. ZECH (Eds.), Chromosome identification, *book review* of, 647
- Castillo, N. *See* Gehrels, T., *et al.*
- Castor, G. B., and W. H. Smyers: Gasoline substitutes (*letters*), 698
- Cell culture of mammalian endometrium and synthesis of blastokinin in vitro, G. L. Whitson and F. A. Murray, 668
- Cerebroside antibody inhibits sulfatide synthesis and myelination and demyelination in cord tissue cultures, J. M. Fry *et al.*, 540
- Cervetto, L., and M. Piccolino: Synaptic transmission between photoreceptors and horizontal cells in the turtle retina, 417
- Chader, G. J. *See* Bensinger, R. E., *et al.*
- Chaganti, R. S. K. *See* Marsh, W. L., *et al.*
- Chalon, J., *et al.*: Tracheobronchial epithelial multinucleation in malignant disease, 525
- Chandler, J. G. *See* Sniderman, A. D., *et al.*
- Chang, D. *See* Lai, C. Y., *et al.*
- Chang, K.-P., and W. Trager: Nutritional significance of symbiotic bacteria in two species of hemoflagellates, 531
- Chapin, F. S., III: Phosphate absorption capacity and acclimation potential in plants along a latitudinal gradient, 521
- Charette, M. P. *See* Pieters, C., *et al.*
- Charles, D. *See* Mannard, A., *et al.*
- Charlson, R. E. *See* Whitby, K. T., *et al.*
- Chase, S. C., E. D. Miner, D. Morrison, G. Münch, G. Neugebauer: Preliminary infrared radiometry of Venus from Mariner 10, 1291
- Chase, S. C., R. D. Ruiz, G. Münch, G. Neugebauer, M. Schroeder, L. M. Traf-ton: Pioneer 10 infrared radiometer experiment: preliminary results, 315
- CHASE, W. G. (Ed.), Visual information processing, *book review* of, 402
- Chemistry and functions of colicins, L. P. HAGER (Ed.), *book review* by F. M. Richards, 1076
- Chemistry of organophosphorus pesticides, The, C. FEST and K.-J. SCHMIDT, *book review* by R. L. Metcalf, 506
- Chino, H., *et al.*: Biosynthesis of α -ecdysone by prothoracic glands in vitro, 529
- Chiroff, R. T. *See* Villareale, M., *et al.*
- CHISSICK, S. S. *See* PRICE, W. C., *et al.*
- Chlorinated hydrocarbons in the Sargasso Sea atmosphere and surface water, T. F. Bidleman and C. E. Olney, 516
- Cho-Chung, Y. S., and P. M. Gullino: In vivo inhibition of growth of two hormone-dependent mammary tumors by dibutyryl cyclic AMP, 87
- Cholera toxin: interaction of subunits with ganglioside G_{M1}, S. van Heyningen, 656
- Choline content of rat brain, W. B. Stavinoha and S. T. Weintraub, 964
- Chorus, C. A.: Drug education conference (*letter*), 1142
- Chromosome identification, T. CASPERSSON and L. ZECH (Eds.), *book review* by J. German, 647
- Chung, E., and E. J. Miller: Collagen polymorphism: characterization of molecules with the chain composition [$\alpha 1(III)$]₂ in human tissues, 1200
- Chýlek, P., and J. A. Coakley, Jr.: Aerosols and climate, 75
- Citation analysis (*letters*), S. A. Goudsmit *et al.*, 28
- Clark, G. R., II: Calcification on an unstable substrate: marginal growth in the mollusk *Pecten diegensis*, 968
- Claycomb, W. C. *See* Goldstein, M. A., *et al.*
- Clements, A. *See* Gehrels, T., *et al.*
- Cloud, P.: Rubey conference on crustal evolution (*meeting report*), 878
- Coakley, J. A., Jr. *See* Chýlek, P.
- Coal and the present energy situation, E. F. Osborn, 477
- Coburn, J. (*News and Comment*): sterilization regulations, 935
- Cody, M. L.: Optimization in ecology, 1156
- Coffeen, D. *See* Gehrels, T., *et al.*
- Cohen, G. *See* Riely, C. A., *et al.*
- Cohen, I. R. *See* Orgad, S.
- Cohn, M. *See* Barstad, P., *et al.*
- Colburn, D. S. *See* Schubert, G., *et al.*
- See also* Smith, E. J., *et al.*
- Cole, J. R. *See* Goudsmit, S. A., *et al.*
- COLE, J. R., and S. COLE, Social stratification in science, *book review* of, 841
- Cole, M.: *book review* of Africa counts, 741
- Cole, S. *See* Goudsmit, S. A., *et al.*
- COLE, S. *See* COLE, J. R.
- Coleman, P. J., Jr. *See* Smith, E. J., *et al.*
- Collagen polymorphism: characterization of molecules with the chain composition [$\alpha 1(III)$]₂ in human tissues, E. Chung and E. J. Miller, 1200
- Collard, H. R. *See* Wolfe, J. H., *et al.*
- Comar, C. L.: Radiation effects (*letter*), 258
- Comparative morphology of the mammalian ovary, H. W. MOSSMAN and K. L. DUKE, *book review* by C. R. Austin, 948
- Computer systems (*letter*), D. J. Frailey, 150
- Computers and future music, M. V. Mathews *et al.*, 263
- Comroe, J. H., Jr.: Heart panel's report (*letter*), 150
- Conception of nature in Japanese culture, The, M. Watanabe, 279
- Condon, W. S., and L. W. Sander: Neonate movement is synchronized with adult speech: interactional participation and language acquisition, 99
- Confusion over bacteriophage ϕ X-174, The (*letter*), W. Szybalski, 1145
- COOKE, R. U., and A. WARREN, Geomorphology in deserts, *book review* of, 1286
- Cooper, J. C., and A. D. Hasler: Electroencephalographic evidence for reten-

- tion of olfactory cues in homing coho salmon, 336
- Copernican observations (*letters*), R. Berendzen and A. H. Hammond, 469
- Copyright decision (*letter*), W. White Jr., 698
- Copyright, public policy, and information technology, N. L. Henry, 384
- Corry, P. *See* McGinness, J., *et al.*
- Coser, L. A.: *book review* of Tradition, change, and modernity, 742
- Cosmides, G. J.: Pharmacology and toxicology applied to the treatment of patients (*meeting report*), 1219
- Costa, J. L., *et al.*: Serotonin storage in platelets: estimation of storage-packet size, 537
- Cotter, W. B.: Social facilitation and development in *Ephesia kühniella* Z., 747
- Coupling between cortical potentials from different areas, E. Callaway and P. R. Harris, 873
- Covers: dog as surrogate mother (22 Mar.); glacier crevasse (18 Jan.); iso-density computer display (22 Feb.); Jupiter's red spot and a shadow of the moon (25 Jan.); male pronghorn (1 Mar.); manganese nodules (8 Feb.); metals recovered from municipal refuse (15 Mar.); micrograph of aluminum-silicate mixture (11 Jan.); peregrine falcons in an eyrie (15 Feb.); "phosphenes" in visual field of a blind patient (1 Feb.); satellite photo of east coast of North America and Greenland (8 Mar.); Venus (29 Mar.)
- Cram, D. J., and J. M. Cram: Host-guest chemistry, 803
- Cram, J. M. *See* Cram, D. J.
- Creutzfeldt-Jakob disease: focus among Libyan Jews in Israel, E. Kahana *et al.*, 90
- Cruickshank, A. M.: Gordon Research Conferences (*meeting report*), 979
- Culliton, B. J. (*News and Comment*): Frederickson and Institute of Medicine, 184, 398; health budget for fiscal year 1975, 638; Institute of Medicine scrubs three committees, 937; Marston to presidency of the University of Florida, 285; medical education and its cost, 1272; National Institutes of Health and its leadership, 829; Office of Management and Budget, 392; prescription drugs, 284; Sherman to American Association of Medical Colleges, 285; Stetten to deputy director at NIH, 285
- Culotti, J. *See* Hartwell, L. H., *et al.*
- Currey, J. D.: *book review* of Mechanical properties of bone, 67
- Cutler, H. C.: *book review* of Palaeoethnobotany, 193
- Cyclic adenosine monophosphate: selective increase in caudate nucleus after administration of L-dopa, E. Garelis and N. H. Neff, 532
- Cytochromes, R. LEMBERG and J. BARRETT, *book review* by R. E. Dickerson, 505

D

- Dale, D. C., and R. G. Graw, Jr.: Transplantation of allogeneic bone marrow in canine cyclic neutropenia, 83
- Dalgarno, A.: *book review* of Atoms and molecules in astrophysics, 405
- DALLOS, P.: The auditory periphery, *book review* of, 845
- Dana, T. F. *See* Newman, W. A.
- Daneš, Z. F.: *book review* of Theory of the earth's gravity field, 1284
- Danielson, G. E. *See* Murray, B. C., *et al.*
- David, E. E., Jr.: Prospectus for science advising (*editorial*), 801
- Davies, M. E. *See* Murray, B. C., *et al.*
- Davies, R. E.: *book review* of How man moves, 649
- Davis, D. E.: Unemployed biologists (*letter*), 1036
- Davis, L., Jr. *See* Smith, E. J., *et al.*

- DDE: its presence in peregrine eggs in 1948, D. B. Peakall, 673
- Deep impurities in semiconductors, A. G. MILNES, *book review* by C. H. Henry, 1284
- Deepwater illumination (*letter*), M. V. King, 596
- Definition of the meter (*letter*), J. D. Mulholland, 1248
- DeFries, J. C., *et al.*: Near identity of cognitive structure in two ethnic groups, 338
- Deibler, W. P. *See* Beatty, J., *et al.*
- DE JONG, K. A., and R. SCHOLTEN (Eds.), Gravity and tectonics, *book review* of, 1186
- DeLuca, H. F. *See* Tanaka, Y.
- de Nevers, N. *See* Levenspiel, O.
- DePierre, J. W., and M. L. Karnovsky: Ecto-enzyme of granulocytes: 5' nucleotidase, 1096
- Detection of heat-labile *Escherichia coli* enterotoxin with the use of adrenal cells in tissue culture, S. T. Donta *et al.*, 334
- Detection of radon emission at the edges of lunar maria with the Apollo alpha-particle spectrometer, P. Gorenstein *et al.*, 411
- Deuterium oxide effect on temperature-dependent survival in populations of *Drosophila melanogaster*, H. V. Samis *et al.*, 427
- DE WITT, B. S., and N. GRAHAM (Eds.), The many-worlds interpretation of quantum mechanics, *book review* of, 1189
- Diarrhea toxin obtained from a water-bloom-producing species, *Microcystis aeruginosa* Kützinger, K. M. S. Aziz, 1206
- Dickerson, R. E.: *book review* of Cytochromes, 505
- Dickey, P. A. *See* Pozo-Olano, J. deD., *et al.*
- Dickinson, R. *See* Howard, H. T., *et al.*
- Diphenylhydantoin: effects on calcium metabolism in the chick, M. Villareale *et al.*, 671
- Disease and economic development, B. A. WEISBROD *et al.*, *book review* by P. K. Newman, 1286
- Disruption of gypsy moth mating with microencapsulated disparlure, E. A. Cameron *et al.*, 972
- Distributed relaxation processes in sensory adaptation, J. Thorson and M. Biederman-Thorson, 161
- DNA synthesis and mitosis in well-differentiated mammalian cardiocytes, M. A. Goldstein *et al.*, 212
- Dobelle, W. H., *et al.*: Artificial vision for the blind: electrical stimulation of visual cortex offers hope for a functional prosthesis, 440
- Dolezalova, H. *See* Stepita-Klauco, M., *et al.*
- Domestikationsforschung und geschichte der haustiere, J. MATOLCSI (Ed.), *book review* by E. S. Wing, 844
- Donaldson, J. L.: Injuries related to cosmetics (*letter*), 1246
- Donta, S. T., *et al.*: Detection of heat-labile *Escherichia coli* enterotoxin with the use of adrenal cells in tissue culture, 334
- Doolittle, R. F.: *book review* of The variation and adaptive expression of antibodies, 190
- Doose, L. *See* Gehrels, T., *et al.*
- Douce, R.: Site of biosynthesis of galactolipids in spinach chloroplasts, 852
- Dowling, H. F.: *book review* of Rise up to life, 505
- Dowty, E., *et al.*: "Very High Alumina basalt": a mixture and not a magma type, 1214
- Dretchen, K. L. *See* Hoekman, T. B., *et al.*
- Drug education conference (*letter*), C. A. Chorus, 1142
- Duce, R. A. *See* Zoller, W. H., *et al.*
- Duffy, T. E. *See* Vergara, F., *et al.*
- DUKE, K. L. *See* MOSSMAN, H. W.
- Dunn, C. Y. *See* Aaronson, S. A.

- Dunne, J. A.: Mariner 10 Venus encounter, 1289
- Duquesnoy, R. J. *See* Kemp, R. G.
- Dyal, P. *See* Smith, E. J., *et al.*
- Dynamics of expanding inhibitory fields, R. A. Armstrong *et al.*, 444
- Dyson, R. H., Jr.: *book review* of South Asian archaeology, 947

E

- Earth's magnetosphere, The, J. G. Roederer, 37
- Easton, W. H. *See* Ku, T. L., *et al.*
- Eaton, J. W., *et al.*: Survival at extreme altitude: protective effect of increased hemoglobin-oxygen affinity, 743
- Ebbesen, P.: Aging increases susceptibility of mouse skin to DMBA carcinogenesis independent of general immune status, 217
- Eckles, H. H.: Marine advisory programs, (*letter*), 595
- Economics of resource recovery from municipal solid waste, The, J. G. Abert *et al.*, 1052
- Ecto-enzyme of granulocytes: 5' nucleotidase, J. W. DePierre and M. L. Karnovsky, 1096
- Edelson, R. E. *See* Howard, H. T., *et al.*
- Editorials: AAAS meetings, 369; Academic science and industry, 1251; Global science policy, 1147; Ignorance as the driving force, 907; Managers of science, 599; No easy way out of energy crisis, 475; Out of the energy crunch by 1976, 707; Overmanagement of medicine, 155; Pioneer 10 mission to Jupiter, 261; Prospectus for science advising, 801; The "slippery slope" of science, 1041; Social experiments: promise and problems, 35
- Education in the San Francisco Bay area (*Association Affairs*), C. Irving, 340
- EISENSTADT, S. N.: Tradition, change, and modernity, *book review* of, 742
- Eisner, T. *See* Carrel, J. E.
- Electroencephalographic evidence for retention of olfactory cues in homing coho salmon, J. C. Cooper and A. D. Hasler, 336
- Electron tunneling and superconductivity, I. Giaever, 1253
- Embryology and phylogeny in annelids and arthropods, D. T. ANDERSON, *book review* by R. L. Fernald, 1073
- Emiliani, C., and N. J. Shackleton: The Brunhes epoch: isotopic paleotemperatures and geochronology, 511
- Emmel, T. C.: Rainfall in the Amazon Basin (*letter*), 257
- Energetic electrons in the magnetosphere of Jupiter, J. A. Van Allen *et al.*, 309
- Energetic particle population in the Jovian magnetosphere: a preliminary note, J. H. Trainor *et al.*, 311
- Energy and environmental costs (*letter*), F. H. Bormann, 1246
- Energy and the environment (*letter*), J. McCarthy, 901
- Enright, J. T. *See* Snedaker, S. C.
- Enzymatic mechanism for the antithrombotic and antihemostatic actions of aspirin, An, A. L. Willis, 325
- EPSTEIN, E. H. *See* WEISBROD, B. A., *et al.*
- Eraker, J. H. *See* Simpson, J. A., J. H. Eraker, J. E. Lampion, P. H. Walpole
- Erratum: for *News and Comment* (25 Jan., p. 291), 769
- ERWIN, J. A. (Ed.), Lipids and biomembranes of eukaryotic microorganisms, *book review* of, 1287
- Esaki, L.: Long journey into tunneling, 1149
- Esposito, P. B. *See* Howard, H. T., *et al.*
- Essenhig, R. H.: Fuel technology directory (*letter*), 797
- Ethane evolution: a new index of lipid peroxidation, C. A. Riely *et al.*, 208

- Etzioni, A.: The "slippery slope" of science (*editorial*), 1041. *See also* Capron, A. M.
- Eustatic sea level 120,000 years ago on Oahu, Hawaii, T.-L. Ku *et al.*, 959
- Evans, C. A., Jr. *See* Natusch, D. F. S., *et al.*
- EVANS, F. G., Mechanical properties of bone, *book review of*, 67
- Evans, H. E.: *book review of* Wasps, 192
- Evidence that enzyme polymorphisms are selectively neutral, but blood group polymorphisms are not, T. Yamazaki and T. Maruyama, 1091
- Evolution of melanism, The, B. KETTLEWELL, *book review by* H. L. Carson, 67
- Evolutionary paleoecology of the marine biosphere, J. W. VALENTINE, *book review by* J. Levinton, 648
- Ewens, W. J., *et al.*: Analysis of neutrality in protein polymorphism, 446
- Exchanges with China (*letters*), U. S. G. Kuhn, III, and H. Brown, 1142
- Excitability changes in cat lateral geniculate cells during saccadic eye movements, H. Noda and W. R. Adey, 543

F

- Fagan, J. F., III: Infant color perception, 973
- Failure to confirm cyclic AMP as second messenger for norepinephrine in rat cerebellum, N. Lake and L. M. Jordan, 663
- Fairweather, R. *See* Stepita-Klauco, M., *et al.*
- Farel, P. B.: *book review of* Habituation, 649
- FDR's science policy (*letter*), D. J. Kevles, 798
- Fears, T. R., and M. A. Schneiderman: Pathologic evaluation and the blind technique (*letter*), 1144
- Fecal bacterial β -glucuronidase: control by diet, B. S. Reddy *et al.*, 416
- Federbush, P. G.: *book review of* The many-worlds interpretation of quantum mechanics, 1189
- Feldman, B. M.: Rabies shots (*letter*), 1248
- Feldman, M. W. *See* Ewens, W. J., *et al.*
- Feldman, W. C. *See* Bridge, H. S., *et al.*
- Female steroid hormones and target cell nuclei, B. W. O'Malley and A. R. Means, 610
- Fernald, R. L.: *book review of* Embryology and phylogeny in annelids and arthropods, 1073
- FEST, C., and K.-J. SCHMIDT, Chemistry of organophosphorus pesticides, *book review of*, 506
- Feynman, R. P.: Structure of the proton, 601
- Ficken, M. S. *See* Ficken, R. W., *et al.*
- Ficken, R. W., *et al.*: Temporal pattern shifts to avoid acoustic interference in singing birds, 762
- Fillius, R. W., and C. E. McIlwain: Radiation belts of Jupiter, 314
- Fjeldbo, G. *See* Howard, H. T., *et al.* *See also* Kliore, A., *et al.*
- Fjorthingstad, E. J., and V. E. Shashoua: Seasonal changes in goldfish learning?, 1321
- Fleischner, G. *See* Mahoney, P., *et al.*
- Fletcher, R. T. *See* Bensinger, R. E., *et al.*
- Flindt, H. R. *See* Van Allen, J. A., *et al.*
- Flynn, J. P. *See* Bandler, R. J., Jr.
- Forest planning (*letters*), D. J. Zinn and P. C. Wakeley, 26
- Form and pattern in human evolution, C. OXNARD, *book review by* D. M. Raup, 298
- Foundations of scientific method, R. N. GIERE and R. S. WESTFALL (Eds.), *book review by* R. Smith, 946
- Frailley, D. J.: Computer systems (*letter*), 150
- Freeze, R. A. *See* Gambolati, G., *et al.*
- Fremlin, J. H. *See* Göksu, H. Y., *et al.*
- Friedman, T. B., *et al.*: Galactosemia and galactonolactone: further biochemical observations, 764
- Fry, J. M., *et al.*: Cerebroside antibody inhibits sulfatide synthesis and myelination and demyelination in cord tissue cultures, 540
- Fryxell, R. *See* Göksu, H. Y., *et al.*
- Fuel technology directory (*letter*), R. H. Essenhigh, 797
- Function of naturally occurring polyamines, U. BACHRACH, *book review by* E. J. Herbst, 1075

G

- Gaffney, P. E.: PCB's: another source? (*letter*), 367
- Gaines, A. M.: Protodolomite synthesis at 100°C and atmospheric pressure, 518
- Gál, E. M. *See* Harvey, J. A.
- Galactosemia and galactonolactone: further biochemical observations, T. B. Friedman *et al.*, 764
- Gale, S.: The "relevance" of basic science (*letter*), 473
- Galenism, O. TEMKIN, *book review by* L. G. Wilson, 650
- Gallo, R. C. *See* Lewis, B. J., *et al.*
- Gally, J. A.: *book review of* Genetic control of immune responsiveness, 507
- Gambolati, G., *et al.*: Predictive simulation of the subsidence of Venice, 849
- Garber, M. *See* Suenaga, M.
- Gardner, F. H. *See* Marsh, W. L., *et al.*
- Garelis, E., and N. H. Neff: Cyclic adenosine monophosphate: selective increase in caudate nucleus after administration of L-dopa, 532
- Gas-rich meteorites: possible evidence for origin on a regolith, D. Macdougall *et al.*, 73
- Gasoline substitutes (*letters*), G. B. Castor and W. H. Smyers, 698
- GASTON, J., Originality and competition in science, *book review of*, 841
- Gates, D. M. *See* Bakken, G. S., *et al.*
- Gating currents of the sodium channels: three ways to block them, F. Bezanilla and C. M. Armstrong, 753
- Gatto, P. *See* Gambolati, G., *et al.*
- Gault, D. *See* Murray, B. C., *et al.*
- Gay, C. V., and W. J. Mueller: Carbonic anhydrase and osteoclasts: localization by labeled inhibitor autoradiography, 432
- Gehrels, T., *et al.*: Imaging photopolarimeter experiment on Pioneer 10, 318
- Geigle, J. E. *See* Moore, J. C.
- Genetic control of immune responsiveness H. O. MCDEVITT and M. LANDY (Eds.), *book review by* J. A. Gally, 507
- Genetic control of the cell division cycle in yeast, L. H. Hartwell *et al.*, 46
- Genetic heterogeneity (*letters*), R. S. Singh and R. Klein, 700
- Genetic recombination: genetic, physical, and biochemical aspects (*meeting report*), A. Skalka *et al.*, 1218
- Genetics of sex differentiation, U. MITTWOCH, *book review by* A. D. Bloom, 66
- Geomorphology in deserts, R. U. COOKE and A. WARREN, *book review by* K. W. Butzer, 1286
- George, W. J. *See* Ignarro, L. J., *et al.*
- German, D. C. *See* Yeomans, J. S., *et al.*
- German, J.: *book review of* Chromosome identification, 647. *See also* Marsh, W. L., *et al.*
- Glaever, I.: Electron tunneling and superconductivity, 1253
- GIERE, R. N., and R. S. WESTFALL (Eds.), Foundations of scientific method, *book review of*, 946
- Gillett, J. D.: *book review of* Man against tsetse, 299
- Gillette, R. (*News and Comment*): congressional press gallery controversy, 728;
- energy budget for fiscal year 1975, 636;
- Hosmer to leave Congress, 398;
- Mead elected AAAS president, 181;
- plutonium and the "hot particle problem," 834;
- "Problems of forbidden knowledge" at AAAS meeting, 1060;
- synthetic fuels, 641;
- uranium enrichment, 1172, 1271;
- Velikovsky and AAAS forum, 1059;
- Weinberg leaves Oak Ridge, 60;
- Weinberg moves to White House, 288; *See also* Abelson, P. H., and R. Gillette
- Girvin, J. P. *See* Dobelle, W. H., *et al.*
- Gladney, E. S. *See* Zoller, W. H., *et al.*
- Glass, L. *See* Armstrong, R. A., *et al.*
- Global science policy (*editorial*), Lord Ritchie-Calder, 1147
- Göksu, H. Y., *et al.*: Age discrimination of burned flint by a thermoluminescent method, 651
- GOLDBERG, E. D. (Ed.), North Sea science, *book review of*, 1286
- Goldberger, R. F.: Autogenous regulation of gene expression, 810
- Goldman, C. R. *See* Horne, A. J.
- Goldman, M. I.: *book review of* Our environment, 1187
- Goldstein, A. *See* Lowney, L. I., *et al.*
- Goldstein, M. A., *et al.*: DNA synthesis and mitosis in well-differentiated mammalian cardiocytes, 212
- Golub, L. *See* Gorenstein, P., *et al.*
- Goodman, R. N., *et al.*: Host-specific phytotoxic polysaccharide from apple tissue infected by *Erwinia amylovora*, 1081
- Goran, M. *See* Stokes, J., III, *et al.*
- Gordon Research Conferences (*meeting report*), A. M. Cruickshank, 979
- Gorenstein, P., *et al.*: Detection of radon emission at the edges of lunar maria with the Apollo alpha-particle spectrometer, 411
- Gorman, A. L. F. *See* McReynolds, J. S.
- GOTTLIEB, G. (Ed.), Behavioral embryology, *book review of*, 948
- Goudsmit, S. A.: Voluntary or not? (*letter*), 702
- Goudsmit, S. A., *et al.*: Citation analysis (*letters*), 28
- Gould, L. V. *See* Villareale, M., *et al.*
- Gould, S. J.: *book review of* Numerical taxonomy, 739
- GRAHAM, N. *See* DE WITT, B. S.
- Grant administration (*letters*), V. P. White and R. J. Woodrow, 901
- Gravitation, C. W. MISNER *et al.*, *book review by* D. W. Sciama, 1186
- Gravitational parameters of the Jupiter system from the Doppler tracking of Pioneer 10, J. D. Anderson *et al.*, 322
- Gravity and tectonics, K. A. DE JONG and R. SCHOLTEN (Eds.), *book review by* A. L. Hales, 1186
- Graw, R. G., Jr. *See* Dale, D. C.
- Greeley, R., *et al.*: Wind tunnel simulations of light and dark streaks on Mars, 847
- Greenberg, A. *See* Beatty, J., *et al.*
- GREENWOOD, F. C. *See* MARGOULIES, M.
- Gross, J. *See* Polansky, J. R., *et al.*
- Groupé, V.: Virus Cancer Program (*letter*), 367
- Guanylate cyclase: inhibition by light in retinal photoreceptors, R. E. Bensinger *et al.*, 86
- Gullino, P. M. *See* Cho-Chung, Y. S.
- Gunnells, J. C. *See* Schanberg, S. M., *et al.*

H

- Habituation, H. V. S. PEEKE and M. J. HERZ (Eds.), *book review by* P. B. Farel, 649
- Hackerman, N.: Ignorance as the driving force (*editorial*), 907
- Hagen, K. S.: *book review of* Biology of Coccinellidae, 299
- HAGER, L. P. (Eds.), Chemistry and functions of colicins, *book review of*, 1076

- Hailman, J. P. *See* Ficken, R. W., *et al.*
Hales, A. L.: *book review* of Gravity and tectonics, 1186
Hall, C. F.: *Pioneer* 10, 301
HALLAM, A., A revolution in the earth sciences, *book review* of, 504
Hämeen-Anttila, J. *See* Gehrels, T., *et al.*
Hamilton, D. *See* Simpson, M. A., *et al.*
Hamilton, G. Lentz, R. B. McKibben, A. Mogro-Campero, M. Perkins, K. R. Pyle, A. J. Tuzzolino, J. J. O'Gallagher
Hammond, A. L. (*Research News*): frontiers of research in atmospheric and marine science, 736; manganese nodules, 502, 644. *See also* Berendzen, R. *See also* Metz, W. D., and A. L. Hammond
Hammond, N. *See* Romanov, M. A., *et al.*
HAMMOND, N. (Ed.), *South Asian archaeology*, *book review* of, 947
Hapke, B. *See* Murray, B. C., *et al.*
Harris, P. R., and E. Callaway: Coupling between cortical potentials from different areas, 873
Harrison, H. *See* Hobbs, P. V., *et al.*
Harrison, H. E.: *book review* of Calcium and phosphorus metabolism, 845
Hartle, R. E. *See* Bridge, H. S., *et al.*
Hartwell, L. H., *et al.*: Genetic control of the cell division cycle in yeast, 46
Harvey, J. A., and E. M. Gál: Septal tryptophan-5-hydroxylase: divergent response to raphe lesions and parachlorophenylalanine, 869
Hasler, A. D. *See* Cooper, J. C.
Haussler, D. H. *See* Brumbaugh, P. F., *et al.*
Haussler, M. R. *See* Brumbaugh, P. F., *et al.*
Haviland, W. A.: *book review* of Papers of the Peabody Museum, Harvard University, vols. 62-64, 297
Hawkes, N. (*News and Comment*): energy in Britain, 57
Heart panel's report (*letter*), J. H. Comroe, Jr., 150
Heath, I. B., and T. Unestam: Mycoplasma-like structures in the aquatic fungus *Aphanomyces astaci*, 434
Heezen, B. C.: *book review* of A revolution in the earth sciences, 504
Henderson, B. E. *See* Menck, H. R., *et al.*
HENDERSON, J. F., and A. R. P. PATTERSON, Nucleotide metabolism, *book review* of, 507
Hendley, E. D. *See* Welch, B. L., *et al.*
Henry, C. H.: *book review* of Deep impurities in semiconductors, 1284
Henry, N. L.: Copyright, public policy, and information technology, 384
Herbst, E. J.: *book review* by Function of naturally occurring polyamines, 1075
Heritability analyses of IQ scores: science or numerology?, D. Layzer, 1259
HERZ, M. J. *See* PEEKE, H. V. S.
HESS, E. H., Imprinting, *book review* of, 740
HIGH, L. R., JR. *See* PICARD, M. D.
High-frequency C-type virus induction by inhibitors of protein synthesis, S. A. Aaronson and C. Y. Dunn, 422
Hill, H. Z. *See* Friedman, T. B., *et al.*
HIORNS, R. W. *See* BARTLETT, M. S.
History of life sciences (*letter*), J. H. Young, 798
HL-A antigens in mummified pre-Columbian tissues, P. Stastny, 864
Hobbs, P. V., *et al.*: Atmospheric effects of pollutants, 909
Hoch, W. *See* Silver, M. J., *et al.*
HODEK, I., Biology of Coccinellidae, *book review* of, 299
Hoekman, T. B., *et al.*: Miniature end plate potentials recorded from mammalian myoneural junctions in vivo, 213
Hoffmann, D., *et al.*: Carcinogenicity of methylchrysenes, 215
Holden, C. (*News and Comment*): financing postsecondary education, 731; nutrition of U.S. population, 1062; Science and Astronautics Committee, 1277; Smithsonian Institution's Center for Short-Lived Phenomena, 55; *Social Indicators*, 1276; world population and fertility reduction, 833
Holloway, F. A. *See* Yeomans, J. S., *et al.*
Holmstead, R. L. *See* Casida, J. E., *et al.*
Homogenized milk and atherosclerosis (*letter*), J. P. Zikakis, 472
Hood, L. *See* Barstad, P., *et al.*
Hook, E. B.: Publishing ethics (*letter*), 1246
Hoover, S. R.: Prevention of food-processing wastes, 824
Hopfield, J. J.: *book review* of Bonds and bands in semiconductors, 403
Horita, A. *See* Quock, R. M.
Hormonal control of neutrophil lysosomal enzyme release: effect of epinephrine on adenosine 3',5'-monophosphate, L. J. Ignarro *et al.*, 855
Horne, A. J., and C. R. Goldman: Suppression of nitrogen fixation by blue-green algae in a eutrophic lake with trace additions of copper, 409
Host-guest chemistry, D. J. Cram and J. M. Cram, 803
Host-specific phytotoxic polysaccharide from apple tissue infected by *Erwinia amylovora*, R. N. Goodman *et al.*, 1081
How big is a chunk?, H. A. Simon, 482
How man moves, S. CARLSÖÖ, *book review* by R. E. Davies, 649
Howard, H. T., *et al.*: Venus: mass, gravity field, atmosphere, and ionosphere as measured by the Mariner 10 dual-frequency radio system, 1297
Huang, A. S. *See* Kashket, E. R., *et al.*
Huang, J. S. *See* Goodman, R. N., *et al.*
Huang, P.-Y. *See* Goodman, R. N., *et al.*
Human associative memory, J. R. ANDERSON and G. H. BOWER, *book review* by M. Posner, 1283
Human DNA polymerase III (R-DNA polymerase): distinction from DNA polymerase and reverse transcriptase, B. J. Lewis *et al.*, 867
Human ecology (*letter*), C. H. Muller, 368
Humes, D. H. *See* Kinard, W. H., *et al.*
Humidifiers and energy conservation (*letter*), P. S. Riggs, 1145
Hunt, E.: *book review* of Pattern recognition, learning, and thought, 403
Hydrolysis of the lectin of *Otala lactea*, S. Matsubara and W. C. Boyd, 339
Hynes, H. B. N.: *book review* of Limnology of a small Malayan river Sungai Gombak, 65
- ## I
- Ignarro, L., *et al.*: Hormonal control of neutrophil lysosomal enzyme release: effect of epinephrine on adenosine 3',5'-monophosphate, 855
Ignorance as the driving force (*editorial*), N. Hackerman, 907
Ikekawa, N. *See* Chino, H., *et al.*
Imaging photopolarimeter experiment on Pioneer 10, The, T. Gehrels *et al.*, 318
Immunoglobulin structure: amino terminal sequences of mouse myeloma proteins that bind phosphorylcholine, P. Barstad *et al.*, 962
Imprinting, E. H. HESS, *book review* by P. G. Bateson, 740
Increased surface albedo in the Northern Hemisphere, G. J. Kukla and H. J. Kukla, 709
Industrial air pollution: possible effect on lung cancer, H. R. Menck *et al.*, 210
Industry in the San Francisco Bay area (*Association Affairs*), R. J. Lamb, Jr., 222
Infant color perception, J. F. Fagan III, 973
Ingerman, C. M. *See* Silver, M. J., *et al.*
Inhibition of cellular mediated immunity in marihuana smokers, G. G. Nahas *et al.*, 419
- Inhibition of neighboring motoneurons in conscious control of single spinal motoneurons, H. M. Smith, Jr., *et al.*, 975
Injuries related to cosmetics (*letter*), J. L. Donaldson, 1246
Innovation in industry and the diffusion of technology, J. M. Utterback, 620
Instability of N-nitrosamides (*letter*), W. Lijinsky, 368
Institutions in modern society: caretakers and subjects, O. I. Romano-V., 722
"Internal waves" advancing along submarine canyons, F. P. Shepard *et al.*, 195
Interplanetary and near-Jupiter meteoroid environments: preliminary results from the meteoroid detection experiment, W. H. Kinard *et al.*, 321
Interstellar hydrogen in galaxies, M. S. Roberts, 371
Intestinal lactase activity in the suckling rat: influence of hypophysectomy and thyroidectomy, K. Y. Yeh and F. Moog, 77
Intriligator, D. S. *See* Wolfe, J. H., *et al.*
In vivo inhibition of growth of two hormone-dependent mammary tumors by dibutyryl cyclic AMP, Y. S. Cho-Chung and P. M. Gullino, 87
Ionic basis of hyperpolarizing receptor potential in scallop eye: increase in permeability to potassium ions, J. S. McReynolds and A. L. F. Gorman, 658
Irving, C.: Education in the San Francisco Bay area (*Association Affairs*), 340
IRVING, J. T., Calcium and phosphorus metabolism, *book review* of, 845
Irwin, H. T. *See* Göksu, H. Y., *et al.*
Ishibashi, M. *See* Chino, H., *et al.*
Iversen, J. D. *See* Greeley, R., *et al.*
Izzard, C. S.: *book review* of Locomotion of tissue cells, 1073
- ## J
- Jackson, J. L. *See* Armstrong, R. A., *et al.*
Janese, W. W. *See* Parrish, R. G., *et al.*
Jannasch, H. W.: *book review* of Barobiology and the experimental biology of the deep sea, 1074
Johnson, R. C. *See* DeFries, J. C., *et al.*
Johnson, R. T. *See* Narayan, O., *et al.*
Jones, D. E. *See* Smith, E. J., *et al.*
Jordan, L. M. *See* Lake, N.
Judge, D. L., and R. W. Carlson: Pioneer 10 observations of the ultraviolet glow in the vicinity of Jupiter, 317
- ## K
- Kacew, S. *See* Singhal, R. L., *et al.*
Kahana, E., *et al.*: Creutzfeldt-Jakob disease: focus among Libyan Jews in Israel, 90
Kaliner, M., and K. F. Austen: Adenosine 3',5'-monophosphate: inhibition of complement-mediated cell lysis, 659
Karnovsky, M. L. *See* DePierre, J. W.
Kashket, E. R., *et al.*: Status of women microbiologists, 488
Katz, J. S. *See* Chalon, J., *et al.*
Keil, K. *See* Dowty, E., *et al.*
Keith, A. D., and W. Snipes: Viscosity of cellular protoplasm, 666
Keller Plan in science teaching, The, J. A. Kulik *et al.*, 379
KELLEY, A. C. *See* WEISBROD, B. A., *et al.*
Kemp, R. G., and R. J. Duquesnoy: Thymus adenylate cyclase activity during murine leukemogenesis, 218
Kendall, J. *See* Gehrels, T., *et al.*
Kenney, M. D. *See* Mason, W. A.
Kerrick, W. G. L., and P. M. Best: Calcium ion release in mechanically disrupted heart cells, 435
 α -Ketoglutarate: increased concentrations in the cerebrospinal fluid of pa-

- tients in hepatic coma, F. Vergara *et al.*, 81
- KETTLEWELL, B.: The evolution of melanism, *book review of*, 67
- Kevles, D. J.: FDR's science policy (*letter*), 798
- Keynesian theory (*letter*), D. L. Turner, 702
- Khalifa, S. See Casida, J. E., *et al.*
- Kilbey, B. J., and G. Zetterberg: Optical brighteners (*letter*), 798
- Kimmel, M. A. See Ku, T.-L., *et al.*
- Kinard, W. H., *et al.*: Interplanetary and near-Jupiter meteoroid environments: preliminary results from the meteoroid detection experiment, 321
- King, M. V.: Deepwater illumination (*letter*), 596
- Kirshner, N. See Schanberg, S. M., *et al.*
- Kittel, C.: On citations (*letter*), 702
- Kleiber, M. See Bakken, G. S., *et al.*
- Klein, R. See Singh, R. S.
- Kleinsmith, L. J. See Stein, G. S., *et al.*
- Kliore, A. J. See Howard, H. T., *et al.*
- Kliore, A., *et al.*: Preliminary results on the atmospheres of Io and Jupiter from the Pioneer 10 S-band occultation experiment, 323
- Knight, C. K. See Gehrels, T., *et al.*
- Knipling, E. F. See Cameron, E. A., *et al.*
- Knox, J. R. See Casida, J. E., *et al.*
- Kocsis, J. J. See Silver, M. J., *et al.*
- Kolata, G. B. (*Research News*): combinatorics, the mathematics of discrete phenomena, 839; molecular probes and a new way to study gene expression, 63; theoretical ecology and beginnings of a predictive science, 400
- Konigsberg, W. See Barstad, P., *et al.*
- Koopmans, H. S. See Yeomans, J. S., *et al.*
- Korenman, S. G., *et al.*: Protein kinase translocation as an early event in hormonal control of uterine contraction, 430
- Korn, E. D.: *book review of* Lipids and biomembranes of eukaryotic microorganisms, 1287
- Kornberg, A.: *book review of* Nucleotide metabolism, 507
- Koske, R. E. See Bandoni, R. J.
- Kreuz, D. S., and J. Axelrod: Amphetamine in human plasma: a sensitive and specific enzymatic assay, 420
- Ku, T.-L., *et al.*: Eustatic sea level 120,000 years ago on Oahu, Hawaii, 959
- Kuck, D. L.: Advantages of surface mining (*letter*), 28
- Kuhn, D. C. See Willis, A. L., *et al.*
- Kuhn, U. S. G., III, and H. Brown: Exchanges with China (*letters*), 1142
- Kukla, G. J., and H. J. Kukla: Increased surface albedo in the Northern Hemisphere, 709
- Kukla, H. J. See Kukla, G. J.
- Kulik, C.-L. See Kulik, J. A., *et al.*
- Kulik, J. A., *et al.*: The Keller Plan in science teaching, 379
- Kumar, S. See Broadfoot, A. L., *et al.*
- Kushiro, I. See Seitz, M. G.
- Kurland, R. J. See Parrish, R. G., *et al.*
- Kuse, A. R. See DeFries, J. C., *et al.*

L

- Lacalli, T., and A. B. Acton: Tip growth in *Micrasterias*, 665
- Lai, C. Y., *et al.*: Amino sequence of rabbit muscle aldolase and the structure of the active center, 1204
- Lake, J. A., and K. R. Leonard: Bacteriophage structure: determination of head-tail symmetry mismatch for *Caulobacter crescentus* phage ϕ CbK, 744
- Lake, H., and L. M. Jordan: Failure to confirm cyclic AMP as second messenger for norepinephrine in rat cerebellum, 663
- LaMarche, V. C., Jr.: Paleoclimatic inferences from long tree-ring records, 1043
- Lamb, R. J., Jr.: Industry in the San Fran-

- cisco Bay area (*Association Affairs*), 222
- Lampert, J. E. See Simpson, J. A., J. H. Eraker, J. E. Lampert, P. H. Walpole
- LANDY, M. See MCDEVITT, H. O.
- Laser handbook, F. T. ARECCHI and E. O. SCHULZ-DUBOIS (Eds.), *book review by* A. E. Siegman, 843
- Layzer, D.: Heritability analyses of IQ scores: science or numerology?, 1259
- Lazarus, A. J. See Bridge, H. S., *et al.*
- Lead in seawater (*meeting report*), C. Patterson, 553
- Lead pica produced in rats, C. T. Snowden and B. A. Sanderson, 92
- Lecar, M.: *book review of* The Titus-Bode law of planetary distances, 65
- Lee, R. E., Jr., See Whitby, K. T., *et al.*
- Lehrer, G. M. See Fry, J. M., *et al.*
- Leive, L. See Kashket, E. R., *et al.*
- LEMBERG, R., and J. BARRETT: Cytochromes, *book review of*, 505
- Lentz, G. See Simpson, J. A., D. Hamilton, G. Lentz, R. B. McKibben, A. Mogro-Campero, M. Perkins, K. R. Pyle, A. J. Tuzzolino, J. J. O'Gallagher
- Leonard, K. R. See Lake, J. A.
- Leonard, R. T. See Nagahashi, G., *et al.*
- Lepping, R. P. See Ness, N. F., *et al.*
- Leprosy in the armadillo: new model for biomedical research, E. E. Storrs *et al.*, 851
- Lerman, J. C., and O. Queiroz: Carbon fixation and isotope discrimination by a crassulacean plant: dependence on the photoperiod, 1207
- Levenspiel, O., and N. de Nevers: The osmotic pump, 157
- Levinton, J.: *book review of* Evolutionary paleoecology of the marine biosphere, 648
- Levy, G. S. See Howard, H. T., *et al.*
- Lewis, B. J., *et al.*: Human DNA polymerase III (R-DNA polymerase): distinction from DNA polymerase I and reverse transcriptase, 867
- LEYHAUSEN, P. See LORENZ, K.
- Lichtenfeld, K. See Soberman, R. K., *et al.*
- Lieberman, M. See Riely, C. A., *et al.*
- Light flashes observed by astronauts on Apollo 11 through Apollo 17, L. S. Pinsky *et al.*, 957
- Lijinsky, W.: Instability of *N*-nitrosamides (*letter*), 368
- Limnology of a small Malayan river Sungai Gombak, J. E. BISHOP, *book review by* H. B. N. Hynes, 65
- Linearized heat transfer relations in biology, G. S. Bakken *et al.*, 976
- Lipids and biomembranes of eukaryotic microorganisms, J. A. ERWIN (Ed.), *book review by* E. D. Korn, 1287
- Lock, G. S. H.: Tar sand technology (*letter*), 469
- Locomotion of tissue cells, *book review by* C. S. Izzard, 1073
- London, W. T. See Mahoney, P., *et al.*
- Long journey into tunneling, L. Esaki, 1149
- LORENZ, K., and P. LEYHAUSEN, Motivation of human and animal behavior, *book review of*, 191
- Lowery, P. J. See Lowney, L. I., *et al.*
- Low-loss niobium-tin compound for superconducting alternating-current power transmission applications, M. Suenaga and M. Garber, 952
- Lowney, L. I., *et al.*: Partial purification of an opiate receptor from mouse brain, 749
- Lozner, E. C., *et al.*: B-cell alloantigens determined by the H-2 linked I α region are associated with mixed lymphocyte culture stimulation, 757
- LUCKEY, T. D. (Ed.), Thymic hormones, *book review of*, 66
- Lunar surface: identification of the dark mantling material in the Apollo 17 soil samples, C. Pieters *et al.*, 1191
- Lynn, G. E., and J. T. Benitez: Temporal bone preservation in a 2600-year-old Egyptian mummy, 200

M

- Macdougall, D., *et al.*: Gas-rich meteorites: possible evidence for origin on a regolith, 73
- Machin, J.: Osmotic gradients across snail epidermis: evidence for a water barrier, 759
- Mack, S. B. (*News and Comment*): Office of Technology Assessment staffs up, 291; *erratum*, 769
- MacMichael, D. C. See Pozo-Olano, J. deD., *et al.*
- Magnetic field observations near Venus: preliminary results from Mariner 10, N. F. Ness *et al.*, 1301
- Magnetic field of Jupiter and its interaction with the solar wind, E. J. Smith *et al.*, 305
- Magnetic interactions in solids, H. J. ZEIGER and G. W. PRATT, *book review by* W. P. Wolf, 406
- Magovern, G. J.: Safety of medical devices (*letter*), 149
- Mahoney, P., *et al.*: Australia antigen: detection and transmission in shellfish, 80
- Maimoni, A. See Stephens, D. R., *et al.*
- Major, R. See Quinn, J. B.
- Mammalian pheromone: identification of active component in the subauricular scent of the male pronghorn, D. Müller-Schwarze *et al.*, 860
- Man against tsetse, J. J. MC KELVEY, JR., *book review by* J. D. Gillett, 299
- Managers of science (*editorial*), D. Wolfe, 599
- Mancuso, T. See Stoeckle, J. D.
- Mangroves, isopods, and the ecosystem (*letters*), S. C. Snedaker and J. T. Enright, 1036
- Mannard, A., *et al.*: Regeneration electrode units: implants for recording from single peripheral nerve fibers in freely moving animals, 547
- Many-worlds interpretation of quantum mechanics, The, B. S. DE WITT and N. GRAHAM (Eds.), *book review by* P. G. Federbush, 1189
- Mapping human autosomes: evidence supporting assignment of Rhesus to the short arm of chromosome No. 1, W. L. Marsh *et al.*, 966
- Marathoning (*letter*), T. J. Bassler, 256
- Marcus, J. See Romanov, M. A., *et al.*
- MARGOULIES, M., and F. C. GREENWOOD (Eds.), Structure-activity relationships of protein and polypeptide hormones, *book review of*, 193
- Marine advisory programs (*letter*), H. H. Eckles, 595
- Mariner 10 Venus encounter, J. A. Dunne, 1289
- Marsh, W. L., *et al.*: Mapping human autosomes: evidence supporting assignment of Rhesus to the short arm of chromosome No. 1, 966
- Marshall, N. F. See Shepard, F. P., *et al.*
- Martian climate: an empirical test of possible gross variations, T. Owen, 763
- Martin, W. L. See Howard, H. T., *et al.*
- Maruyama, T. See Ewens, W. J., *et al.* See also Yamazaki, T.
- Marx, J. L. (*Research News*): biochemistry of cancer cells, 1279; cancer vaccine prospects, 1067; viral carcinogenesis and DNA viruses, 1066
- Mason, W. A., and M. D. Kenney: Redirection of filial attachments in rhesus monkeys: dogs as mother surrogates, 1209
- Massie, H. R. See Samis, H. V., *et al.*
- Mathematical theory of the dynamics of biological populations, The, M. S. BARTLETT and R. W. HORNES (Eds.), *book review by* R. M. May, 1188
- Mathews, M. V., *et al.*: Computers and future music, 263
- MATOLCSI, J. (Ed.), Domestikationsforschung und geschichte der haustiere, *book review of*, 844

- Matsubara, S., and W. C. Boyd: Hydrolysis of the lectin of *Otala lactea*, 339
- Maugh, T. H., II (*Research News*): cancer and what is it?, 1068; chemical carcinogenesis, 940; potential carcinogens detection, 943; RNA viruses, 1181
- Mavko, G. *See* Nur, A.
- May, R. M.: *book review* of The mathematical theory of the dynamics of biological populations, 1188
- Mayer, K. *See* Marsh, W. L., *et al.*
- McBride, E. F.: *book review* of Sedimentary structures of ephemeral streams, 298
- McCarthy, J.: Energy and the environment (*letter*), 901
- McClearn, G. E. *See* DeFries, J. C., *et al.*
- McCord, T. B. *See* Pieters, C., *et al.*
- McCormick, R. A.: Air pollutants study (*letter*), 1036
- MCDEVITT, H. O., and M. LANDY (Eds.), Genetic control of immune responsiveness, *book review* of, 507
- McDonald, F. B. *See* Trainor, J. H., *et al.*
- McDonough, L. M., and H. R. Moffitt: Sex pheromone of the codling moth, 978
- McElroy, M. B. *See* Broadfoot, A. L., *et al.*
- McGervey, J. D. *See* Goudsmit, S. A., *et al.*
- McGinness, J., *et al.*: Amorphous semiconductor switching in melanins, 853
- MC GUIGAN, F. J., and R. A. SCHOONOVER (Eds.), The psychophysiology of thinking, *book review* of, 1072
- McIlwain, C. E. *See* Fillius, R. W.
- McKearn, T. J.: Antireceptor antiserum causes specific inhibition of reactivity to rat histocompatibility antigens, 94
- McKelvey, J. J., Jr., Man against tsetse, *book review* of, 299
- McKerrow, J. H., and A. B. Robinson: Primary sequence dependence of the deamidation of rabbit muscle aldolase, 85
- McKibben, R. B. *See* Simpson, J. A., D. Hamilton, G. Lentz, R. B. McKibben, A. Mogro-Campero, M. Perkins, K. R. Pyle, A. J. Tuzzolino, J. J. O'Gallagher
- McLoughlin, P. A. *See* Shepard, F. P., *et al.*
- McReynolds, J. S., and A. L. F. Gorman: Ionic basis of hyperpolarizing receptor potential in scallop eye: increase in permeability to potassium ions, 658
- Meaning of fossils, The, M. J. S. RUDWICK, *book review* by T. J. M. Schopf, 945
- Means, A. R. *See* O'Malley, B. W.
- Mechanical properties of bone, F. G. EVANS, *book review* by J. D. Currey, 67
- Meeting reports: Beryllium disease, 449; Biotransformations and fermentations, 1217; Genetic recombination: genetic, physical, and biochemical aspects, 1218; Gordon Research Conferences, 979; Lead in seawater, 553; Microcalorimetry techniques: applications to cellular systems, 227; Pharmacology and toxicology applied to the treatment of patients, 1219; Radiation chemistry of condensed phases: report of a joint Japan-United States seminar, 881; Rubey conference on crustal evolution, 878; The sea and its resources, 224
- Melting relations of the Allende meteorite, M. G. Seitz and I. Kushiro, 954
- Menck, H. R., *et al.*: Industrial air pollution: possible effect on lung cancer, 210
- Merali, Z. *See* Singhal, R. L., *et al.*
- Mercury: does its atmosphere contain water?, G. E. Thomas, 1197
- Merrill, C. R. *See* Friedman, T. B., *et al.*
- Mesoscale ocean eddies in the North Pacific: westward propagation, R. L. Bernstein, 71
- Metcalf, R. L.: *book review* of The chemistry of organophosphorus pesticides, 506
- Metz, W. D. (*News and Comment*): helium conservation program, 59; uranium enrichment, 1270; (*Research News*): moons of Jupiter, 293; update on Mars, 187
- and A. L. Hammond (*Research News*): geodynamics report, 735
- Microcalorimetry techniques: applications to cellular systems (*meeting report*), P. D. Ross, 227
- Mihalov, J. D. *See* Wolfe, J. H., *et al.*
- Miller, E. J. *See* Chung, E.
- MILLER, L. P. (Ed.), Phytochemistry, *book review* of, 1190
- Miller, W. B.: Reproduction, technology, and the behavioral sciences (*letter*), 149
- Millman, I. *See* Mahoney, P., *et al.*
- MILNES, A. G., Deep impurities in semiconductors, *book review* of, 1284
- Milton, D. J.: Carbon dioxide hydrate and floods on Mars, 654
- Miner, E. D. *See* Chase, S. C., E. D. Miner, D. Morrison, G. Münch, G. Neugebauer
- Miniature end plate potentials recorded from mammalian myoneural junctions in vivo, T. B. Hoekman *et al.*, 213
- "Miracle" sorghum (*letter*), H. K. Schneider, 596
- MISNER, C. W., *et al.*, Gravitation, *book review* of, 1186
- MITTWOCH, U., Genetics of sex differentiation, *book review* of, 66
- Miyazaki, H. *See* Chino, H., *et al.*
- Mladejovsky, M. G. *See* Dobelle, W. H., *et al.*
- Modisette, J. L.: OMB approach to management (*letter*), 1141
- Moffitt, H. R. *See* Beroza, M., *et al.* *See also* McDonough, L. M.
- Mogro-Campero, A. *See* Simpson, J. A., D. Hamilton, G. Lentz, R. B. McKibben, A. Mogro-Campero, M. Perkins, K. R. Pyle, A. J. Tuzzolino, J. J. O'Gallagher
- Monolayers and microbial dispersal, R. J. Bandoni and R. E. Koske, 1079
- Moog, F. *See* Yeh, K. Y.
- Moon, H. W. *See* Donta, S. T., *et al.*
- Moore, F. R. *See* Mathews, M. V., *et al.*
- Moore, J. C., and J. E. Geigle: Slaty cleavage: incipient occurrences in the deep sea, 509
- Morishima, A. *See* Nahas, G. G., *et al.*
- Morrison, D. *See* Chase, S. C., E. D. Miner, D. Morrison, G. Münch, G. Neugebauer
- Moser, J. C. *See* Riley, R. G., *et al.*
- MOSSMAN, H. W., and K. L. DUKE, Comparative morphology of the mammalian ovary, *book review* of, 948
- Motivation of human and animal behavior, K. LORENZ and P. LEYHAUSEN, *book review* by N. T. Adler, 191
- Mueller, W. J. *See* Gay, C. V.
- Mulholland, J. D.: Definition of the meter (*letter*), 1248
- Muller, C. H.: Human ecology (*letter*), 368
- Müller-Schwarze, C. *See* Müller-Schwarze, D., *et al.*
- Müller-Schwarze, D., *et al.*: Mammalian pheromone identification of active component in the subauricular scent of the male pronghorn, 860
- Multinational corporations (*letters*), J. deD. Pozo-Olano *et al.*, 469
- Münch, G. *See* Chase, S. C., E. D. Miner, D. Morrison, G. Münch, G. Neugebauer
- Münch, G. *See also* Chase, S. C., R. D. Ruiz, G. Münch, G. Neugebauer, M. Schroeder, L. M. Trafton
- Murphy, D. L. *See* Costa, J. L., *et al.*
- Murr, L.: Ordered lattice defects in colored fluorite: direct observations, 206
- Murray, B. C., *et al.*: Venus: atmospheric motion and structure from Mariner 10 pictures, 1307
- Murray, F. A. *See* Whitson, G. L.
- Mycoplasma-like structures in the aquatic fungus *Aphanomyces astaci*, I. B. Heath and T. Unestam, 434
- Nagahashi, G., *et al.*: The Casparian strip as a barrier to the movement of lanthanum in corn roots, 670
- Nagy, L. A.: Transvaal stromatolite: first evidence for the diversification of cells about 2.2×10^9 years ago, 514
- Nahas, G. G., *et al.*: Inhibition of cellular mediated immunity in marihuana smokers, 419
- Nakai, N. *See* Lai, C. Y., *et al.*
- Narayan, O., *et al.*: Visna virus infection of American lambs, 1202
- Natusch, D. F. S., *et al.*: Toxic trace elements: preferential concentration in respirable particles, 202
- Naumann, R. J.: Automotive emission standards and fuel economy (*letter*), 595
- Naylor, A. W.: *book review* of Phytochemistry, 1190
- Near identity of cognitive structure in two ethnic groups, J. C. DeFries *et al.*, 338
- Neff, N. H. *See* Garelis, E.
- Neisser, U.: *book review* of Visual information processing, 402
- Nelson, D. F. *See* Rogers, E. H., *et al.*
- Neonate movement is synchronized with adult speech: interactional participation and language acquisition, W. S. Condon and L. W. Sander, 99
- Ness, N. F., *et al.*: Magnetic field observations near Venus: preliminary results from Mariner 10, 1301
- Neste, S. L. *See* Soberman, R. K., *et al.*
- Neugebauer, G. *See* Chase, S. C., E. D. Miner, D. Morrison, G. Münch, G. Neugebauer, *See also* Chase, S. C., R. D. Ruiz, G. Münch, G. Neugebauer, M. Schroeder, L. M. Trafton
- Neural pathways from thalamus associated with regulation of aggressive behavior, R. J. Bandler, Jr., and J. P. Flynn, 96
- Neurons in rhesus monkey visual cortex: systematic relation between time of origin and eventual disposition, P. Rakic, 425
- Newman, P. K.: *book review* of Disease and economic development, 1286
- Newman, W. A., and T. F. Dana: *Acanthaster*: tests of the time course of coral destruction, 103
- News and Comment: agriculture and U.S.-U.S.S.R. détente, 1175; boll weevil and its eradication, 494; "breeder economy" and AEC, 1276; budget for fiscal year 1975, 635; *Chemicals & Health* report, 395; computer sales to the U.S.S.R., 499; Congress and a jammed agenda, 727; congressional press gallery controversy, 728; energy in Britain, 57; Environmental Protection Agency severs ties with industry group, 60; financing U.S.S.R. détente, 1175; boll weevil and postsecondary education, 731; floating nuclear plants, 1063; Ford hears scientists' concerns, 496; Frederickson and Institute of Medicine, 184, 398; helium conservation program, 59; herbicides and their effects in Vietnam, 1177; Hosmer to leave Congress, 398; Institute of Medicine scrubs three committees, 937; insurance dominates Nixon health message, 933; land use legislation, 1176; Law of the Sea conference, 290; Marston to presidency of the University of Florida, 285; Mead elected AAAS president, 181; medical education, 1272; National Institutes of Health and its leadership, 829; nutrition of U.S. population, 1062; off-road vehicles in California Desert, 396, 936; Office of Management and Budget, 180, 286, 392; Office of Technology Assessment staffs up, 291 (*erratum*, 769); oil shortage, 183; Pentagon's R & D clients, 936; photocopying of journals, 1274; plutonium and the "hot particle problem," 834; prescription drugs, 284; Presidential Prizes for

- Innovation, 938; "Problems of Forbidden Knowledge" at AAAS meeting, 1060; Proxmire hits research priorities at the National Science Foundation, 498; Russia and noncooperation with scientists, 61; Salk Institute worth \$2.4 million to March of Dimes, 937; schizophrenia program and U.S.-U.S.S.R. exchange, 932; Science and Astronautics Committee, 1277; science and technology and its relations with the federal government, 497; Sherman to American Association of Medical Colleges, 285; Smithsonian Institution's Center for Short-Lived Phenomena, 55; sterilization regulations, 935; *Social Indicators*, 1276; Stetten to deputy director for science at National Institutes of Health, 285; synthetic fuels, 641; United States more vulnerable over raw materials, 185; uranium enrichment, 1172, 1270; Velikovsky and AAAS forum, 1059; Watergate tapes and report of expert panel, 732; Weinberg leaves Oak Ridge, 60; Weinberg moves to White House, 288; world population and fertility reduction, 833
- NIETO, M. M., The Titus-Bode law of planetary distances, *book review of*, 65
- Nitrification in Paleocene shale, J. F. Power *et al.*, 1077
- No easy way out of energy crisis (*editorial*), P. H. Abelson, 475
- Noda, H., and W. R. Adey: Excitability changes in cat lateral geniculate cells during saccadic eye movements, 543
- Nonhistone chromosomal proteins and gene regulation, G. S. Stein *et al.*, 817
- Norepinephrine uptake into cerebral cortical synaptosomes after one fight or electroconvulsive shock, B. L. Welch *et al.*, 220
- North Sea science, E. D. GOLDBERG (Ed.), *book review by* W. Burt, 1286
- Norway: small country plans civil science and technology, J. B. Quinn and R. Major, 172
- NOVA: programs of new science TV series (*Association Affairs*), 1216
- Nowell, P. C. See Marsh, W. L., *et al.*
- Nucleotide metabolism, J. F. HENDERSON and A. R. P. PATTERSON, *book review by* A. Kornberg, 507
- Null, G. W. See Anderson, J. D., *et al.*
- Numerical taxonomy, P. H. A. SNEATH and R. R. SOKAL, *book review by* S. J. Gould, 739
- Nur, A., and G. Mavko: Postseismic viscoelastic rebound, 204
- Nutritional significance of symbiotic bacteria in two species of hemoflagellates, K.-P. Chang and W. Trager, 531
- O**
- Observations at Venus encounter by the plasma science experiment on Mariner 10, H. S. Bridge *et al.*, 1295
- O'Gallagher, J. J. See Simpson, J. A., D. Hamilton, G. Lentz, R. B. McKibben, A. Mogro-Campero, M. Perkins, K. R. Pyle, A. J. Tuzzolino, J. J. O'Gallagher
- Ogilvie, K. W. See Bridge, H. S., *et al.*
- O'Hanlon, J. F. See Beatty, J., *et al.*
- Ohsawa, T. See Casida, J. E., *et al.*
- Ohtaki, T. See Chino, H., *et al.*
- O'Leary, B. See Murray, B. C., *et al.*
- Olins, A. L., and D. E. Olins: Spheroid chromatic units (ν bodies), 330
- Olins, D. E. See Olins A. L.
- Olney, C. E. See Bidleman, T. F.
- O'Malley, B. W., and A. R. Means: Female steroid hormones and target cell nuclei, 611
- OMB approach to management (*letter*), J. L. Modisette, 1141
- On citations (*letter*), C. Kittel, 702
- O'Neal, R. L. See Kinard, W. H., *et al.*
- O'Neil, T. J. See Ku, T.-L., *et al.*
- On the directionality of medial forebrain bundle fibers mediating self-stimulation, J. S. Yeomans *et al.*, 102
- On the "square" model of Maya territorial organization, M. A. Romanov *et al.*, 875
- Operant control of occipital theta rhythm affects performance in a radar monitoring task, J. Beatty *et al.*, 871
- Operations research (*letters*), C. H. Waddington and A. L. Porter, 1141
- Opp, A. G.: Pioneer 10 mission: summary of scientific results from the encounter with Jupiter, 302
- Optical brighteners (*letter*), B. J. Kilbey and G. Zetterberg, 798
- Optimization in ecology, M. L. Cody, 1156
- Ordered lattice defects in colored fluorite: direct observations, L. E. Murr, 206
- Orgad, S., and I. R. Cohen: Autoimmune encephalomyelitis: activation of thymus lymphocytes against syngeneic brain antigens in vitro, 1083
- Originality and competition in science, J. GASTON, *book review by* M. R. Quillian, 841
- Origine du système solaire, *book review by* I. Rasool, 504
- Orkin, L. R. See Chalon, J., *et al.*
- Osborn, E. F.: Coal and the present energy situation, 477
- Osborne, W. Z. See Pinsky, L. S., *et al.*
- Osmotic gradients across snail epidermis: evidence for a water barrier, J. Machin, 759
- Osmotic pump, The, O. Levenspiel and N. de Nevers, 157
- Our environment, A. P. VAN TASSEL (Ed.), *book review by* M. I. Goldman, 1187
- Out of the energy crunch by 1976 (*editorial*), P. H. Abelson, 707
- Overmanagement of medicine (*editorial*), W. C. Wescoe, 155
- Owen, T.: Martian climate: an empirical test of possible gross variations, 763
- OXNARD, C., Form and pattern in human evolution, *book review of*, 298
- P**
- Paddock, R. J. See Ignarro, L. J., *et al.*
- Palaeoethnobotany, J. M. RENFREW, *book review by* H. C. Cutler, 193
- Paleoclimatic inferences from long tree-ring records, V. C. LaMarche, Jr., 1043
- Palmer, K. J. See Casida, J. E., *et al.*
- Papers of the Peabody Museum, Harvard University, vols. 62-64, *book review by* W. A. Haviland, 297
- Paradoxical increase in rate of catabolism of low-density lipoproteins after hepatectomy, A. D. Sniderman *et al.*, 526
- Parathyroid hormone effects in rats treated with diphosphonate, R. V. Talmage and J. J. B. Anderson, 661
- Parrish, R. G., *et al.*: Proton relaxation rates of water in brain and brain tumors, 438
- Parsons, H. M.: What happened at Hawthorne?, 922
- Partial purification of an opiate receptor from mouse brain, L. I. Lowney *et al.*, 749
- Particle concentration in the asteroid belt from Pioneer 10, R. K. Soberman *et al.*, 320
- Pask, J. A. See Aksay, I. A.
- Pasternak, A. D. See Stephens, D. R., *et al.*
- Pathologic evaluation and the blind technique (*letter*), T. R. Fears and M. A. Schneiderman, 1144
- Pattern recognition, learning, and thought, L. UHR, *book review by* E. Hunt, 403
- PATTERSON, A. R. P. See HENDERSON, J. F.
- Patterson, C.: Lead in seawater (*meeting report*), 553
- Pawley, W. H.: World food situation (*letter*), 26
- PCB's: another source? (*letter*), P. E. Gaffney, 367
- Peakall, D. B.: DDE: its presence in peregrine eggs in 1948, 673
- PEEKE, H. V. S., and M. J. HERZ (Eds.), *Habituation, book review of*, 649
- Penetration of somatic mammalian cells by sperm, A. A. Bendich *et al.*, 857
- Periglacial processes and environments, A. L. WASHBURN, *book review by* J. T. Andrews, 1285
- Perkins, M. See Simpson, J. A., D. Hamilton, G. Lentz, R. B. McKibben, A. Mogro-Campero, M. Perkins, K. R. Pyle, A. J. Tuzzolino, J. J. O'Gallagher
- Perrin, C. L., and K.-L. Ting: Testing of computer-assisted methods for classification of pharmacological activity, 551
- Persistence of cadmium-induced metabolic changes in liver and kidney, R. L. Singhal *et al.*, 1094
- Peterson, R. D. A.: *book review of* Thymic hormones, 66
- Pharmacology and toxicology applied to the treatment of patients (*meeting report*), G. J. Cosmides, 1219
- PHILLIPS, J. C., Bonds and bands in semiconductors, *book review of*, 403
- Phillips, R. L.: Cancer and adventists, (*letter*), 471
- Phloem translocation, M. J. CANNY, *book review by* J. H. Troughton, 68
- Phosphate absorption capacity and acclimation potential in plants along a latitudinal gradient, F. S. Chapin, III, 521
- Physiology of Insecta, The, M. ROCKSTEIN (Ed.), *book review by* J. W. Truman and L. M. Riddiford, 404
- Phytochemistry, L. P. MILLER (Ed.), *book review by* A. W. Naylor, 1190
- PICARD, M. D., and L. R. HIGH, JR., Sedimentary structures of ephemeral streams, *book review of*, 298
- Piccolino, M. See Cervetto, L.
- PÍCHA, J. See PICK, M., *et al.*
- PICK, M., *et al.*: Theory of the earth's gravity field, *book review of*, 1284
- Pieters, C., *et al.*: Lunar surface: identification of the dark mantling material in the Apollo 17 soil samples, 1191
- Pinsky, L. S., *et al.*: Light flashes observed by astronauts on Apollo 11 through Apollo 17, 957
- Pioneer 10, C. F. Hall, 301
- Pioneer 10 infrared radiometer experiment: preliminary results, S. C. Chase *et al.*, 315
- Pioneer 10 mission: summary of scientific results from the encounter with Jupiter, A. G. Opp, 302
- Pioneer 10 mission to Jupiter (*editorial*), P. H. Abelson, 261
- Pioneer 10 observations of the ultraviolet glow in the vicinity of Jupiter, D. L. Judge and R. W. Carlson, 317
- Piperidine increase in the brain of dormant mice, J. Stepita-Klauco *et al.*, 536
- Pitzer, K. S.: *book review of* Wave mechanics, 1075
- Plague of corn, A. D. A. ROE, *book review by* B. G. Rosenkrantz, 949
- Plasma dopamine β -hydroxylase: a possible aid in the study and evaluation of hypertension, S. M. Schanberg *et al.*, 523
- Plum, F. See Vergara, F., *et al.*
- Plutonium: biomedical research, W. J. Bair and R. C. Thompson, 715
- Point of View: On reading the federal budget, 832
- Polansky, J. R., *et al.*: Brain hyaluronidase: changes in activity during chick development, 862
- Polarized magnetic field fluctuations at the Apollo 15 site: possible regional influence on lunar induction, G. Schubert *et al.*, 1194
- Pollack, J. B. See Greeley, R., *et al.*
- Porter, A. L. See Waddington, C. H.

- Posner, M.: *book review* of Human associative memory, 1283
- Postal, R. B. *See* Howard, H. T., *et al.*
- Postseismic viscoelastic rebound, A. Nur and G. Mavko, 204
- Potter, M. *See* Barstad, P., *et al.*
- Power, J. F., *et al.*: Nitrification in Paleocene shale, 1077
- Pozo-Olano, J. deD., *et al.*: Multinational corporations (*letters*), 469
- PRATT, G. W. *See* ZEIGER, H. J.
- Predicting success in graduate education, W. W. Willingham, 273
- Predictive simulation of the subsidence of Venice, G. Gambolati *et al.*, 849
- Preliminary infrared radiometry of Venus from Mariner 10, S. C. Chase *et al.*, 1291
- Preliminary Pioneer 10 encounter results from the Ames Research Center plasma analyzer experiment, J. H. Wolfe *et al.*, 303
- Preliminary results on the atmospheres of Io and Jupiter from the Pioneer 10 S-band occultation experiment, A. Kliore *et al.*, 323
- Prevention of food-processing wastes, S. R. Hoover, 824
- Price, D. *See* Narayan, O., *et al.*
- Price, P. B. *See* Macdougall, D., *et al.*
- PRICE, W. C., *et al.* (Eds.), Wave mechanics, *book review* of, 1075
- Primary sequence dependence of the deamidation of rabbit muscle aldolase, J. H. McKerrow and A. B. Robinson, 85
- Pringle, J. R. *See* Hartwell, L. H., *et al.*
- Prinz, M. *See* Dowty, E., *et al.*
- Proctor, P. *See* McGinness, J., *et al.*
- Prospectus for science advising (*editorial*), E. E. David, Jr., 801
- Protection of human subjects (*letters*), A. M. Capron and A. Etzioni, 797
- Protein kinase translocation as an early event in the hormonal control of uterine contraction, S. G. Korenman *et al.*, 430
- Protodolomite synthesis at 100°C and atmospheric pressure, A. M. Gaines, 518
- Proton relaxation rates of water in brain and brain tumors, R. G. Parrish *et al.*, 438
- Protons and electrons in Jupiter's magnetic field: results from the University of Chicago experiment on Pioneer 10, J. A. Simpson *et al.*, 306
- Protsch, R. *See* Berger, R.
- Psychophysiology of thinking, The, F. J. MC GUIGAN and R. A. SCHOONOVER (Eds.), *book review* by T. Shallice, 1072
- Publishing ethics (*letter*), E. B. Hook, 1246
- Pyle, K. R. *See* Simpson, J. A., *et al.*

Q

- Queiroz, O. *See* Lerman, J. C.
- Quillian, M. R.: *book review* of Originality and competition in science and Social stratification in science, 841
- Quinn, J. B., and R. Major: Norway: small country plans civil science an technology, 172
- Quock, R. M., and A. Horita: Apomorphine: modification of its hyperthermic effect in rabbits by *p*-chlorophenylalanine, 539

R

- Rabies shots (*letter*), B. M. Feldmann, 1248
- Radiation belts of Jupiter, R. W. Fillius and C. E. McIlwain, 314
- Radiation chemistry of condensed phases: report of a joint Japan-United States seminar (*meeting report*), A. O. Allen, 881

- Radiation effects (*letter*), C. L. Comar, 258
- Radiocarbon dates for earliest domesticated animals from Europe and the Near East, R. Berger and R. Protsch, 1100
- Radioreceptor assay for 1 α ,25-dihydroxyvitamin D $_3$, P. F. Brumbaugh *et al.*, 1089
- Radon-222 from the island of Hawaii: deep soils are more important than lava fields or volcanoes, M. H. Wilkening, 413
- Rainfall in the Amazon Basin (*letter*), T. C. Emmel, 257
- Rajan, R. S. *See* Macdougall, D., *et al.*
- Rakic, P.: Neurons in rhesus monkey visual cortex: systematic relation between time of origin and eventual disposition, 425
- Ramanathan, S. *See* Chalon, J., *et al.*
- Randall, B. A. *See* Van Allen, J. A., *et al.*
- Rasool, I.: *book review* of L'origine du système solaire, 504
- Rasool, S. I. *See* Kliore, A., *et al.*
- Raup, D. M.: *book review* of Form and pattern in human evolution, 298
- Ravensdale, T. *See* PRICE, W. C., *et al.*
- Reasenber, R. D. *See* Howard, H. T., *et al.*
- Reddy, B. S., *et al.*: Fecal bacterial β -glucuronidase: control by diet, 416
- Redirection of filial attachments in rhesus monkeys: dogs as mother surrogates, W. A. Mason and M. D. Kenney, 1209
- Reducing automotive emissions (*letter*), W. G. Agnew, 254
- Reduction of ferricytochrome c by some free radical agents, A. Shafferman and G. Stein, 428
- Reese, T. S. *See* Costa, J. L., *et al.*
- Regeneration electrode units: implants for recording from single peripheral nerve fibers in freely moving animals, A. Man-nard *et al.*, 547
- Reid, B. J. *See* Hartwell, L. H., *et al.*
- "Relevance" of basic science, The (*letter*), S. Gale, 473
- RENFREW, J. M., Paleoehtnobotany, *book review* of, 193
- Reproduction, technology, and the behavioral sciences (*letter*), W. B. Miller, 149
- Research News: biochemistry of cancer cells, 1279; cancer and what is it?, 1068; cancer vaccine prospects, 1067; chemical carcinogenesis, 940; combinatorics, the mathematics of discrete phenomena, 839; electron-hole droplets, 837; frontiers of research in atmospheric marine science, 736; geodynamics report, 735; manganese nodules, 502, 644; molecular probes and a new way to study gene expression, 63; moons of Jupiter, 293; potential carcinogen detection, 943; RNA viruses, 1181; superconducting metals, 293; superconducting wire and how to make it, 294; theoretical ecology and beginnings of a predictive science, 400; update on Mars, 187; viral carcinogenesis and DNA viruses, 1066
- Revolution in the earth sciences, A. A. HALLAM, *book review* by B. C. Heezen, 504
- Richards, F. M.: *book review* of Chemistry and functions of colicins, 1076
- Riddiford, L. M. *See* Truman, J. W.
- Riely, C. A., *et al.*: Ethane evolution: a new index of lipid peroxidation, 208
- Rieser, L. M.: An invitation for suggestions on candidates (*Association Affairs*), 494
- Riggs, P. S.: Humidifiers and energy conservation (*letter*), 1145
- Riley, R. G., *et al.*: Biological responses of *Atta texana* to its alarm pheromone and the enantiomer of the pheromone, 760
- Rise up to life, L. BICKEL, *book review* by H. F. Dowling, 505

- Risset, J. C. *See* Mathews, M. V., *et al.*
- Ritchie-Calder, Lord, Global science policy (*editorial*), 1147
- Rivlin, A. M.: Social experiments: promise and problems (*editorial*), 35
- Robbins, M. L. *See* Kashket, E. R., *et al.*
- ROBERTS, M. J. *See* CARSON, T. R.
- Roberts, M. S.: Interstellar hydrogen in galaxies, 371
- Robinson, A. B. *See* McKerrow, J. H.
- Robinson, A. L. (*Research News*): electron-hole droplets, 837; superconducting metals, 293; superconducting wire and how to make it, 294
- Robinson, E. *See* Hobbs, P. V., *et al.*
- Robinson, R. R. *See* Schanberg, S. M., *et al.*
- ROCKSTEIN, M. (Ed.), The physiology of Insecta, *book review* of, 404
- ROE, D. A., A plague of corn, *book review* of, 949
- Roederer, J. G.: The earth's magnetosphere, 37
- Roelof, E. C. *See* Trainor, J. H., *et al.*
- Roethle, J. *See* Auerbach, R.
- Rogers, E. H., *et al.*: Auroral photography from a satellite, 951
- Romano-V., O. I.: Institutions in modern society: caretakers and subjects, 722
- Romanov, M. A., *et al.*: On the "square" model of Maya territorial organization, 875
- Rosazza, J. P.: Biotransformations and fermentations (*meeting report*), 1217
- Rosenblatt, J. S.: *book review* of Behavioral embryology, 948
- Rosenkrantz, B. G.: *book review* of A plague of corn, 949
- Ross, P. D.: Microcalorimetry techniques: applications to cellular systems (*meeting report*), 227
- Rossini, A. A., *et al.*: Beta cell protection to alloxan necrosis by anomers of D-glucose, 424
- Rothman, S. S. *See* Adelson, J. W.
- Rubey conference on crustal evolution (*meeting report*), P. Cloud, 878
- Rudikoff, S. *See* Barstad, P., *et al.*
- RUDWICK, M. J. S., The meaning of fossils, *book review* of, 945
- Ruiz, R. D. *See* Chase, S. C., R. D. Ruiz, G. Münch, G. Neugebauer, M. Schroeder, L. M. Trafton

S

- Sachs, D. H. *See* Lozner, E. C., *et al.*
- Safety of medical devices (*letter*), G. J. Magovern, 149
- Sakurai, S. *See* Chino, H., *et al.*
- Samis, H. V., *et al.*: Deuterium oxide effect on temperature-dependent survival in populations of *Drosophila melanogaster*, 427
- Sanborn, B. M. *See* Korenman, S. G., *et al.*
- Sander, L. W. *See* Condon, W. S.
- Sanderson, B. A. *See* Snowden, C. T.
- Sandoval, F. M. *See* Power, J. F., *et al.*
- Savage, R. C. *See* Rogers, E. H., *et al.*
- Schanberg, S. M., *et al.*: Plasma dopamine β -hydroxylase: a possible aid in the study and evaluation of hypertension, 523
- Schatten, K. H. *See* Ness, N. F., *et al.*
- SCHMIDT, K.-J. *See* FEST, C.
- Schneider, H. K.: "Miracle" sorghum (*letter*), 596
- Schneiderman, M. A. *See* Fears, T. R.
- Scholarly exchanges with the People's Republic of China, H. Brown, 52
- SCHOLTEN, R. *See* DE JONG, K. A.
- SCHOONOVER, R. A. *See* MC GUIGAN, F. J.
- Schopf, T. J. M.: *book review* of The meaning of fossils, 945
- Schroeder, M. *See* Chase, S. C., *et al.*
- Schubert, G., *et al.*: Polarized magnetic field fluctuations at the Apollo 15 site:

- possible regional influence on lunar induction, 1194
- Schulz, K. *See* Lowney, L. I., *et al.*
- SCHULZ-DUBOIS, E. O. *See* ARECCHI, F. T.
- Schwalbe, C. P. *See* Cameron, E. A., *et al.*
- Schwartz, A. *See* Goldstein, M. A., *et al.*
- Schwartz, K. *See* Schubert, G., *et al.*
- Sciama, D. W.: *book review* of Gravitation, 1186
- Science and management techniques, N. G. Anderson, 726
- Science: challenges of today—outlook for the future (*Association Affairs*), H. J. Carlson, 104
- Scudder, J. D. *See* Bridge, H. S., *et al.*
- Sea and its resources, The (*meeting report*), H. B. Stewart, Jr., 224
- Search by Mariner 10 for electrons and protons accelerated in association with Venus, J. A. Simpson *et al.*, 1318
- Sedimentary structures of ephemeral streams, M. D. PICARD and L. R. HIGH, JR., *book review* by E. F. McBride, 298
- Seasonal changes in goldfish learning?, E. J. Fjeriingstad and V. E. Shashoua, 1321
- Seidel, B. L. *See* Howard, H. T., *et al.*
- See also* Klorer, A., *et al.*
- Seitz, M. G., and I. Kushiro: Melting relations of the Allende meteorite, 954
- Selective pancreatic enzyme secretion due to a new peptide called chymodenin, J. W. Adelson and S. S. Rothman, 1087
- Selenium biochemistry, T. C. Stadtman, 915
- Sentman, D. D. *See* Van Allen, J. A., *et al.*
- Septal tryptophan-5-hydroxylase: divergent response to raphe lesions and parachlorophenylalanine, J. A. Harvey and E. M. Gál, 869
- Serotonin storage in platelets: estimation of storage-packet size, J. L. Costa *et al.*, 537
- Sesplaukis, T. T. *See* Howard, H. T., *et al.*
- Sex pheromone of the codling moth, L. M. McDonough and H. R. Moffitt, 978
- Sex pheromones: (*E,E*)-8,10-dodecadien-1-ol in the codling moth, M. Beroza *et al.*, 89
- Shackleton, N. J. *See* Emiliani, C.
- Shadden, J. *See* Rossini, A. A., *et al.*
- Shafferman, A., and G. Stein: Reduction of ferricytochrome c by some free radical agents, 428
- Shallice, T.: *book review* of The psychophysiology of thinking, 1072
- Shapiro, I. I. *See* Howard, H. T., *et al.*
- Shapley, D. (*News and Comment*): *Chemicals & Health* report, 395; Environmental Protection Agency severs ties with industry research group, 60; herbicides and their effects in Vietnam, 1177; Law of the Sea conference, 290; National Science Foundation budget for fiscal year 1975, 640; Presidential Prizes for Innovation, 938; Proxmire hits research priorities at NSF, 498; Russia and noncooperation with scientists, 61; schizophrenia program and U.S.-U.S.S.R. exchange, 932
- Shashoua, V. E. *See* Fjeriingstad, E. J.
- Shearer, G. M. *See* Lozner, E. C., *et al.*
- Shepard, F. P., *et al.*: "Internal waves" advancing along submarine canyons, 195
- Shimozawa, T. *See* Suga, N.
- Shirley, D. L. *See* Howard, H. T., *et al.*
- Should the history of science be rated X?, S. G. Brush, 1164
- Siegman, A. E.: *book review* of Laser handbook, 843
- Silica-alumina system: stable and metastable equilibria at 1.0 atmosphere, The I. A. Aksay and J. A. Pask, 69
- Silver, M. J., *et al.*: Arachidonic acid causes sudden death in rabbits, 1085
- Silverstein, A. M. *See* Narayan, O., *et al.*
- Silverstein, R. M. *See* Müller-Schwarze, D., *et al.* *See also* Riley, R. G., *et al.*
- Simon, H. A.: How big is a chunk?, 482
- Simon, W.: "Back-to-the-wall" effect continues (*letter*), 150
- Simpson, J. A., J. H. Eraker, J. E. Lampion, P. H. Walpole: Search by Mariner 10 for electrons and protons accelerated in association with Venus, 1318
- Simpson, J. A., D. Hamilton, G. Lentz, R. B. McKibben, A. Mogro-Campero, M. Perkins, K. R. Pyle, A. J. Tuzzolino, J. J. O'Gallagher: Protons and electrons in Jupiter's magnetic field: results from the University of Chicago experiment on Pioneer 10, 306
- Singer, A. G. *See* Müller-Schwarze, D., *et al.*
- Singh, R. S., and R. Klein: Genetic heterogeneity (*letters*), 700
- Singhal, R. L., *et al.*: Persistence of cadmium-induced metabolic changes in liver and kidney, 1094
- Siscoe, G. L. *See* Bridge, H. S., *et al.*
- Site of biosynthesis of galactolipids in spinach chloroplasts, R. Douce, 852
- Site of neural attenuation of responses to self-vocalized sounds in echolocating bats, N. Suga and T. Shimozawa, 1211
- Size of suspended particle matter in air, The, K. T. Whitby *et al.*, 1098
- Skalka, A., *et al.*: Genetic recombination: genetic, physical, and biochemical aspects (*meeting report*), 1218
- Skelton, T. D. *See* Eaton, J. W., *et al.*
- Slaty cleavage: incipient occurrences in the deep sea, J. C. Moore and J. E. Geigle, 509
- "Slippery slope" of science, The (*editorial*), A. Etzioni, 1041
- Smith, B. F. *See* Schubert, G., *et al.*
- Smith, E. J., *et al.*: Magnetic field of Jupiter and its interaction with the solar wind, 305
- SMITH, G. P., The variation and adaptive expression of antibodies, *book review* of, 190
- Smith, H. M., Jr., *et al.*: Inhibition of neighboring motoneurons in conscious control of single spinal motoneurons, 975
- Smith, J. B. *See* Silver, M. J., *et al.*
- Smith, R.: *book review* of Foundations of scientific method, 946
- Smith, R. G. *See* Lewis, B. J., *et al.*
- Smyers, W. H. *See* Castor, G. B.
- SNEATH, P. H. A., and R. R. SOKAL, Numerical taxonomy, *book review* of, 739
- Snedaker, S. C., and J. T. Enright: Mangroves, isopods, and the ecosystem (*letters*), 1036
- Sniderman, A. D., *et al.*: Paradoxical increase in rate of catabolism of low-density lipoproteins after hepatectomy, 526
- Snipes, W. *See* Keith, A. D.
- Snowdon, C. T., and B. A. Sanderson: Lead pica produced in rats, 92
- Soaring prices and sinking sales of science monographs, C. G. Benjamin, 282
- Soberman, R. K., *et al.*: Particle concentration in the asteroid belt from Pioneer 10, 320
- Social experiments: promise and problems (*editorial*), A. M. Rivlin, 35
- Social facilitation and development in *Ephestia kühniella* Z., W. B. Cotter, 747
- Social stratification in science, J. R. COLE and S. COLE, *book review* by M. R. Quillian, 841
- Sofer, D. *See* Kahana, E., *et al.*
- SOKAL, R. R. *See* SNEATH, P. H. A.
- Some aspects of intracellular parasitism, W. Trager, 269
- Sonnett, C. P. *See* Schubert, G., *et al.* *See also* Smith, E. J., *et al.*
- South Asian archaeology, N. HAMMOND (Ed.), *book review* by R. H. Dyson, Jr., 947
- Spelsberg, T. C. *See* Stein, G. S. *et al.*
- Spheroid chromatic units (*v* bodies), A. L. Olins and D. E. Olins, 330
- SPRADBERY, J. P., Wasps, *book review* of, 192
- Stadtman, T. C.: Selenium biochemistry, 915
- Standaert, F. G. *See* Hoekman, T. B., *et al.*
- Stastny, P.: HL-A antigens in mummified pre-Columbian tissues, 864
- Status of women microbiologists, E. R. Kashket *et al.*, 488
- Stavinoha, W. B., and S. T. Weintraub: Choline content of rat brain, 964
- Steele, J.: *book review* of The biology of the Indian Ocean, 405
- Stein, G. *See* Shafferman, A.
- Stein, G. S., *et al.*: Nonhistone chromosomal proteins and gene regulation, 817
- Stein, R. B. *See* Mannard, A., *et al.*
- Steinberg, D. *See* Sniderman, A. D., *et al.*
- Stelzreid, C. T. *See* Howard, H. T., *et al.*
- Stephens, D. R., *et al.*: Underground coal gasification (*letter*), 1036
- Stepita-Klauco, M., *et al.*: Piperidine increase in the brain of dormant mice, 536
- Sternberg, S. S. *See* Bendich, A., *et al.*
- Stevens, R. H. *See* Korenman, S. G., *et al.*
- Stevens, R. K. *See* Whitby, K. T., *et al.*
- Stewart, H. B., Jr.: The sea and its resources (*meeting report*), 224
- Stilwell, D. E. *See* Trainor, J. H., *et al.*
- Stimulation of 24,25-dihydroxyvitamin D₃ production by 1,25-dihydroxyvitamin D₃: Y. Tanaka and H. F. DeLuca, 1198
- Stoeckle, J. D., and T. Mancuso: Beryllium disease (*meeting report*), 449
- Stokes, J., III, *et al.*: The university department (*letters*), 902
- Stone, R. A. *See* Schanberg, S. M., *et al.*
- Storrs, E. E., *et al.*: Leprosy in the armadillo: a new model for biomedical research, 851
- Straus, R. *See* Stokes, J., III, *et al.*
- Strom, R. G. *See* Murray, B. C., *et al.*
- Structure-activity relationships of protein and polypeptide hormones, M. MARGOULIES and F. C. GREENWOOD (Eds.), *book review* by T. A. Bewley, 193
- Structure of the proton, R. P. Feynman, 601
- Strunk, T. H. *See* Bakken, G. S., *et al.*
- Student-faculty evaluation, L. W. Zelby, 1266
- Stutman, O.: Tumor development after 3-methylcholanthrene in immunologically deficient athymic-nude mice, 534
- Suciu-Foca, N. *See* Nahas, G. G., *et al.*
- Suenaga, M., and M. Garber: Low-loss niobium-tin compound for superconducting alternating-current power transmission applications, 952
- Suga, N., and T. Shimozawa: Site of neural attenuation of responses to self-vocalized sounds in echolocating bats, 1211
- Suomi, V. *See* Murray, B. C., *et al.*
- Suppressing *Drosophila* circadian rhythm with dim light, A. T. Winfree, 970
- Suppression of nitrogen fixation by blue-green algae in a eutrophic lake with trace additions of copper, A. J. Horne and C. R. Goldman, 409
- Survival at extreme altitude: protective effect of increased hemoglobin-oxygen affinity, J. W. Eaton *et al.*, 743
- Sutherland, D. J. B. *See* Singhal, R. L., *et al.*
- Sweetnam, D. N. *See* Howard, H. T., *et al.*
- Swindell, W. *See* Gehrels, T., *et al.*
- SWINDLER, D. R., and C. D. WOOD, An atlas of primate gross anatomy, *book review* of, 192
- Synaptic transmission between photorecep-

- tors and horizontal cells in the turtle retina, L. Cervetto and M. Piccolino, 417
- Szybalski, W.: The confusion over bacteriophage ϕ X-174 (*letter*), 1145

T

- Talmage, R. V., and J. J. B. Anderson: Parathyroid hormone effects in rats treated with diphosphonate, 661
- Tanaka, Y., and H. F. DeLuca: Stimulation of 24,25-dihydroxyvitamin D₃ production by 1,25-dihydroxyvitamin D₃, 1198
- Tar sand technology (*letter*), G. S. H. Lock, 469
- Teegarden, B. J. See Trainor, J. H., et al.
- TEMKIN, O., Galenism, *book review of*, 650
- Temporal bone preservation in a 2600-year-old Egyptian mummy, G. E. Lynn and J. T. Benitez, 200
- Temporal pattern shifts to avoid acoustic interference in singing birds, R. W. Ficklen et al., 762
- Terry, W. D. See Lozner, E. C., et al.
- Testing of computer-assisted methods for classification of pharmacological activity, C. L. Perrin and K.-L. Ting, 551
- Theory of the earth's gravity field, M. Pick et al., *book review by* Z. F. Danes, 1284
- Thomas, G. E.: Mercury: does its atmosphere contain water?, 1197
- Thomsen, M. F. See Van Allen, J. A., et al.
- Thomson, W. W. See Nagahashi, G., et al.
- Thompson, L. F. See Pinsky, L. S., et al.
- Thompson, R. C. See Bair, W. J.
- THORNE, K. S. See MISNER, C. W., et al.
- Thorson, J., and M. Biederman-Thorson: Distributed relaxation processes in sensory adaptation, 161
- Thymic hormones, T. D. LUCKEY (Ed.), *book review by* R. D. A. Peterson, 66
- Thymus adenylate cyclase activity during murine leukemogenesis, R. G. Kemp and R. J. Duquesnoy, 218
- Ting, K.-L. See Perrin, C. L.
- Tip growth in *Micrasterias*, T. Lacalli and A. B. Acton, 665
- Titus-Bode law of planetary distances, The, M. M. NIETO, *book review by* M. Lecar, 65
- Tolerance to heterologous erythrocytes, R. Auerbach and J. Roethle, 332
- Tomasko, M. See Gehrels, T., et al.
- Toole, B. P. See Polansky, J. R., et al.
- Torpor in an Andean hummingbird: its ecological significance, F. L. Carpenter, 545
- Toxaphene insecticide: a complex biodegradable mixture, J. E. Cassida et al., 520
- Toxic trace elements: preferential concentration in respirable particles, D. F. S. Natusch et al., 202
- Tracheobronchial epithelial multinucleation in malignant disease, J. Chalon et al., 525
- Tradition, change, and modernity, S. N. EISENSTADT, *book review by* L. A. Coser, 742
- Trafton, L. M. See Chase, S. C., R. D. Ruiz, G. Münch, G. Neugebauer, M. Schroeder, L. M. Trafton
- Trager, W.: Some aspects of intracellular parasitism, 269. See also Chang, K.-P.
- Trainor, J. H., et al.: Energetic particle population in the Jovian magnetosphere: a preliminary note, 311
- Transplantation of allogeneic bone marrow in canine cyclic neutropenia, D. C. Dale and R. G. Graw, Jr., 83
- Transvaal stromatolite: first evidence for the diversification of cells about 2.2×10^9 years ago, L. A. Nagy, 514

- Trask, N. See Murray, B. C., et al.
- Troughton, J. H.: *book review of* Phloem translocation, 68
- Truman, J. W., and L. M. Riddiford: *book review of* The physiology of Insecta, 404
- Tuddenham, R. D.: *book review of* Alfred Binet, 1071
- Tumor development after 3-methylcholanthrene in immunologically deficient athymic-nude mice, O. Stutman, 534
- Turek, I. See Welch, B. L., et al.
- Turner, D. L.: Keynesian theory (*letter*), 702
- Tuttle, R.: *book review of* An atlas of primate gross anatomy, 192
- Tuzzolino, A. J. See Simpson, J. A., et al.
- Tyler, G. L. See Howard, H. T., et al.

U

- Udovich, N. See Greeley, R., et al.
- UHR, L., Pattern recognition, learning, and thought, *book review of*, 403
- Uk, S.: Aid to Indochina (*letter*), 469
- Ultraviolet observations of Venus from Mariner 10 preliminary results, A. L. Broadfoot et al., 1315
- Underground coal gasification (*letter*), D. R. Stephens et al., 1036
- Unemployed biologists (*letter*), D. E. Davis, 1036
- Unestam, T. See Heath, I. B.
- University department, The (*letters*), J. Stokes III et al., 902
- Utterback, J. M.: Innovation in industry and the diffusion of technology, 620

V

- VALENTINE, J. W., Evolutionary paleoecology of the marine biosphere, *book review of*, 648
- Van Allen, J. A., et al.: Energetic electrons in the magnetosphere of Jupiter, 309
- Vandenberg, S. G. See DeFries, J. C., et al.
- Vanderstoep, S. F. See Smith, H. M., Jr., et al.
- van Heyningen, S.: Cholera toxin: interaction of subunits with ganglioside G_{M1}, 656
- VAN TASSEL, A. J. (Ed.), Our environment *book review of*, 1187
- Variation and adaptive expression of antibodies, The, G. P. SMITH, *book review by* R. F. Doolittle, 190
- Venus: atmospheric motion and structure from Mariner 10 pictures, B. C. Murray et al., 1307
- Venus clouds: structure and composition, A. T. Young, 407
- Venus: mass, gravity field, atmosphere, and ionosphere as measured by the Mariner 10 dual-frequency radio system, H. T. Howard et al., 1297
- Vergara, F., et al.: α -Ketoglutarate: increased concentrations in the cerebrospinal fluid of patients in hepatic coma, 81
- "Very high alumina basalt": a mixture and not a magma type, E. Dowty et al., 1214
- Villareale, M., et al.: Diphenylhydantoin: effects on calcium metabolism in the chick, 671
- Virus Cancer Program (*letter*), V. Groupé, 367
- Viscosity of cellular protoplasm, A. D. Keith and W. Snipes, 666
- Visna virus infection of American lambs, O. Narayan et al., 1202
- Visual information processing, W. G. CHASE (Ed.), *book review by* U. Neisser, 402
- Voluntary or not? (*letter*), S. A. Goudsmit, 702
- VYSKOCHIL, V. See PICK M., et al.

W

- Waddington, C. H., and A. L. Porter: Operations research (*letters*), 1141
- Wade, N. (*News and Comment*): agriculture and U.S.-U.S.S.R. détente, 1175; computer sales to the U.S.S.R., 499; Ford hears scientists' concern, 496; military budget for fiscal year 1975, 639; Pentagon's R & D clients, 936; Salk Institute worth \$2.4 million to March of Dimes, 937; U.S. more vulnerable over raw materials, 185; Watergate tapes and report of expert panel, 732
- Wakeley, P. C. See Zinn, D. J.
- Wallace J. R. See Natusch, D. F. S., et al.
- Walpole, P. H. See Simpson, J. A., J. H. Eraker, J. E. Lamport, P. H. Walpole
- Walsh, G. P. See Storrs, E. E., et al.
- Walsh, J. (*News and Comment*): "breeder economy" and Atomic Energy Commission, 1276; budget for research and development for fiscal year 1975, 635; Congress and a jammed agenda, 727; insurance dominates Nixon health message, 933; Office of Management and Budget, 180, 286; photocopying of journals, 1274; science and technology and its relations with the federal government, 497
- WARREN, A. See COOKE, R. U.
- WASHBURN, A. L., Periglacial processes and environments, *book review of*, 1285
- Wasps, J. P. SPRADBURY, *book review by* H. E. Evans, 192
- Wasserman, R. H.: Calcium absorption and calcium-binding protein synthesis: *Solanum malacoxylon* reverses strontium inhibition, 1092. See also Villareale, M., et al.
- Watanabe, M.: The conception of nature in Japanese culture, 279
- Wave mechanics, W. C. PRICE et al. (Eds.), *book review by* K. S. Pitzer, 1075
- Webber, W. R. See Trainor, J. H., et al.
- Weintraub, S. T. See Stavinocha, W. B.
- WEISBROD, B. A., et al., Disease and economic development, *book review of*, 1286
- Weisburger, J. H. See Reddy, B. S., et al.
- Weiss, H. J. See Willis, A. L., et al.
- Weissbach, A. See Skalka, A., et al.
- Weissbarth, S. See Fry, J. M., et al.
- Welch, B. L., et al.: Norepinephrine uptake into cerebral cortical synaptosomes after one fight or electroconvulsive shock, 220
- Wellington, W. G.: Bumblebee *Ocelli* and navigation at dusk, 550
- Wescow, W. C.: Overmanagement of medicine (*editorial*), 155
- WESTFALL, R. S. See GIERE, R. N.
- Whang, Y. C. See Ness, N. F., et al.
- What happened at Hawthorne?, H. M. Parsons, 922
- WHEELER, J. A. See MISNER, C. W., et al.
- Whipp, S. C. See Donta, S. T., et al.
- Whitby, K. T., et al.: The size of suspended particle matter in air, 1098
- White, B. See Greeley, R., et al.
- White, V. P., and R. J. Woodrow: Grant administration (*letters*), 901
- White, W., Jr.: Copyright decision (*letter*), 698
- Whitson, G. L., and F. A. Murray: Cell culture of mammalian endometrium and synthesis of blastokinin in vitro, 668
- Wilkening, M. H.: Radon-222 from the island of Hawaii: deep soils are more important than lava fields or volcanoes, 413
- Willingham, W. W.: Predicting success in graduate education, 273
- Willis, A. L.: An enzymatic mechanism for the antithrombotic and antihemostatic actions of aspirin, 325
- Willis, A. L., et al.: Acetylenic analog of

- arachidonate that acts like aspirin on platelets, 327
 Willis, W. O. *See* Power, J. F., *et al.*
 Wilson, J. R. *See* DeFries, J. C., *et al.*
 Wilson, L. G.: *book review* of Galenism, 650
 Wilson, W. E. *See* Whitby, K. T., *et al.*
 Wind tunnel simulations of light and dark streaks on Mars, R. Greeley *et al.*, 847
 Winfree, A. T.: Suppressing *Drosophila* circadian rhythm with dim light, 970
 Wing, E. S.: *book review* of Domestikationsforschung und geschichte der haustiere, 844
 Wolf, T. H., Alfred Binet, *book review* of, 1071
 Wolf, W. P.: *book review* of Magnetic interactions in solids, 406
 Wolfe, J. H., *et al.*: Preliminary Pioneer 10 encounter results from the Ames Research Center plasma analyzer experiment, 303
 Wolfe, D.: Managers of science (*editorial*), 599
 Wong, R. Y. *See* Casida, J. E., *et al.*
 Wong, S. K. *See* Anderson, J. D., *et al.*
 Wood, C. D. *See* SWINDLER, D. R.

- Wood, J. M.: Biological cycles for toxic elements in the environment, 1049
 Woodrow, R. J. *See* White, V. P.
 Woodwell, G. M.: Biotic energy flows (*letter*), 367
 World food situation (*letter*), W. H. Pawley, 26
 Wynder, E. L. *See* Hoffmann, D., *et al.* *See also* Reddy, B. S., *et al.*

Y and Z

- Yaes, R. J. *See* Goudsmit, S. A., *et al.*
 Yamazaki, T. *See* Ewens, W. J., *et al.*
 ——— and T. Maruyama: Evidence that enzyme polymorphisms are selectively neutral, but blood group polymorphisms are not, 1091
 Yarkin, R. J. *See* Friedman, T. B., *et al.*
 Yek, K. Y., and F. Moog: Intestinal lactase activity in the suckling rat: influence of hypophysectomy and thyroidectomy, 77
 Yeomans, J. S., *et al.*: On the directionality of medial forebrain bundle fibers mediating self-stimulation, 102
 Young, A. T.: Venus clouds: structure and composition, 407
 Young, C.-Y. *See* Friedman, T. B., *et al.*
 Young, J. H.: History of life sciences (*letter*), 798
 ZASLAVSKY, C., Africa counts, *book review* of, 741
 ZECH, L. *See* CASPERSSON, T.
 ZEIGER, H. J., and G. W. PRATT, Magnetic interactions in solids, *book review* of, 406
 ZEITZSCHEL, B. (Ed.), The biology of the Indian Ocean, *book review* of, 405
 Zelby, L. W.: Student-faculty evaluation, 1266
 Zetterberg, G. *See* Kilbey, B. J.
 Zikakis, J. P.: Homogenized milk and atherosclerosis (*letter*), 472
 Zin, D. J., and P. C. Wakeley: Forest planning (*letters*), 26
 Zoller, W. H., *et al.*: Atmospheric concentrations and sources of trace metals at the South Pole, 198
 Zwislocki, J. J.: *book review* of The auditory periphery, 845
 Zygielbaum, A. I. *See* Howard, H. T., *et al.*