
SCIENCE

Index to Volume 171

January–March 1971

Editorial Board

ALFRED BROWN
JAMES F. CROW
THOMAS EISNER
AMITAI ETZIONI
EMIL HAURY
DANIEL KOSHLAND, JR.
THOMAS KUHN
NEAL MILLER

ELLIOTT W. MONTROLL
BRUCE MURRAY
JOHN R. PIERCE
FRANK PRESS
FRANK W. PUTNAM
WALTER O. ROBERTS
MAXINE SINGER

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 1971 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>
3966	8 January	1–108	3972	19 February	609–740
3967	15 January	109–224	3973	26 February	741–840
3968	22 January	225–324	3974	5 March	841–932
3969	29 January	325–424	3975	12 March	933–1080
3970	5 February	425–508	3976	19 March	1081–1188
3971	12 February	509–608	3977	26 March	1189–1280

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

A

- AAAS Council meeting, 1970 (*AAAS*), W. Bevan, 709
- Abelson, P. H. (*editorials*): The Chicago meeting, 239; Control of agricultural pests, 437; The editing of *Science*, 1101; Marine pollution, 21; What is a fair price for oil?, 633
- Abortion and public opinion: the 1960-1970 decade, J. Blake, 540
- ABRAGAM, A., and B. BLEANEY, Electron paramagnetic resonance of transition ions, *book review of*, 1141
- Abridging medical education (*letters*), E. C. Norman and R. B. Dawson, Jr., 846
- Acetylsalicylic acid and chromosome damage, W. D. Loughman *et al.*, 829
- Acidity functions, C. H. ROCHESTER, *book review by* E. Grunwald, 1001
- Activist youth of the 1960's: summary and prognosis, J. L. Horn and P. D. Knott, 977
- Acute lymphocytic leukemia in owl monkeys inoculated with *Herpesvirus saimiri*, L. V. Melendez *et al.*, 1161
- Adams, B. S.: *book review of* Free-access higher education, 468
- Adams, J. B., and T. B. McCord: Alteration of lunar optical properties: age and composition effects, 567
- Addiction as a necessity and opportunity, E. H. Land, 151
- Adenosine 3',5'-monophosphate in nervous tissue: increase associated with synaptic transmission, D. A. McAfee *et al.*, 1156
- Adenosine 3',5'-monophosphate phosphodiesterase in the growth medium of *Physarum polycephalum*, A. W. Murray *et al.*, 496
- Adhesion in biological systems, R. S. MANLY, *book review by* S. Roth, 274
- Adler, N. T. *See* Dziuk, P., *et al.*
- Advances in biophysics, M. KOTANI (Ed.), *book review by* E. Taylor, 890
- Advances in earth history, P. CLOUD (Ed.), *book review by* G. W. White, 1234
- Advances in water pollution research, S. H. JENKINS (Ed.), *book review by* C. E. Renn, 469
- Aflatoxin, P₁: a new aflatoxin metabolite in monkeys, J. Dalezios *et al.*, 584
- After the storm (*letters*), B. S. Garvey, Jr., *et al.*, 626
- Age-associated changes in the DNA of mouse tissue, G. B. Price *et al.*, 917
- Aggregations of 35-nanometer particles associated with neuronal cytopathic changes in natural scrapie, A. Bignami and H. B. Parry, 389
- Agostino, R. *See* Bottini, E., *et al.*
- Agranoff, B. W., *et al.*: Esoteric fish (*letter*), 236
- Aigner, J. S., *et al.*: Early racial and cultural identification in southwestern Alaska, 87
- Aikawa, M. *See* Cook, R. T., *et al.*
- Akintobi, T. *See* Müller, D. G., *et al.*
- Algeri, S. *See* Cheney, D. L., *et al.*
- Alivisatos, S. G. A., *et al.*: Receptors: localization and specificity of binding of serotonin in the central nervous system, 809
- Allelochemicals: chemical interactions be-

- tween species, R. H. Whittaker and P. P. Feeny, 757
- Allergic encephalomyelitis: new form featuring polymorphonuclear leukocytes, S. Levine and R. Sowinski, 498
- Alpha and kappa electroencephalogram activity in eyeless subjects, R. M. Chapman *et al.*, 1159
- Alteration of lunar optical properties: age and composition effects, J. B. Adams and T. B. McCord, 567
- Altruism is rewarding, R. F. Weiss *et al.*, 1262
- Altstatt, L. *See* Weiss, R. F., *et al.*
- American children with reading problems can easily learn to read English represented by Chinese characters, P. Rozin *et al.*, 1264
- Ammonia production in muscle: the purine nucleotide cycle, J. Lowenstein and K. Tornheim, 397
- Ammonioborate: new borate polyion and its structure, S. Merlino and F. Sartori, 377
- Amorphous clay materials (*meeting report*), H. van Olphen, 91
- Amorphous ice: density and reflectivity, J. A. Ghormley and C. J. Hochanadel, 62
- Amphetamine abuse (*meeting report*), E. H. Ellinwood and S. Cohen, 420
- Ancient Polynesian society, I. GOLDMAN, *book review by* E. N. Ferdon, Jr., 793
- Anderson, A. G., Jr.: *book review of* Nonbenzenoid aromatics, 1002
- Anderson, D. L., *et al.*: Composition and evolution of the mantle and core, 1103
- Anderson, G. G., and L. Speroff: Prostaglandins (*meeting report*), 502
- Andrew, R. J.: *book review of* Ethology 53
- Animal behaviour, R. A. HINDE, *book review by* J. P. Hailman, 998
- Animal populations in relation to their food resources, A. WATSON (Ed.), *book review by* W. W. Murdoch, 469
- Anointed but not appointed (*letter*), W. M. Landau and W. M. Cowan, 1098
- Another eclipse in 1973 (*letter*), L. J. Robinson, 751
- Antognoni, G. *See* Bottini, E., *et al.*
- Aphrodisiac effect of *p*-chlorophenylalanine, G. L. Gesse *et al.*, 706
- Application of the physical sciences to archeology (*meeting report*), F. H. Stross, 831
- Arguments concerning relativity and cosmology, O. Klein, 339
- Arking, A. *See* Hansen, J. E.
- Armstrong, W. M., and C. O. Lee: Sodium and potassium activities in normal and "sodium-rich" frog skeletal muscle, 413
- ARONSON, L. R., *et al.*, (Eds.), Development and evolution of behavior, *book review of*, 270
- Arsenic and phosphate: measured by various techniques (*letter*), J. Shapiro, 234
- Arsenic in potable desert groundwater: an analysis problem, G. C. Whitnack and H. H. Martens, 383
- Artibeus jamaicensis*: delayed embryonic development in a neotropical bat, T. H. Fleming, 402
- Aschoff, J., *et al.*: Human circadian

- rhythms in continuous darkness: entrainment by social cues, 213
- Ash, J. F. *See* Wessells, N. K., *et al.*
- Asher, W. *See* Jenkins, J. B., *et al.*
- Ashworth, A. C. *See* Cavanaugh, A. M., *et al.*
- Asprey, L. B.: *book review of* The chemistry of plutonium, 273
- Association Affairs: Chicago meeting, 716; Council meeting, 709; Glenn T. Seaborg, president-elect, 707; officers, committees, and representatives, 712
- Atkinson, D. E. *See* Murray, A. W., *et al.*
- Atlas of the universe, The, P. MOORE, *book review by* B. M. Middlehurst, 888
- Atmospheric aerosol background level, W. H. Fischer, 828
- Atomic absorption spectroscopy, G. D. CHRISTIAN and F. J. FELDMAN, *book review by* M. Margoshes, 369
- Atomic order, E. CANTORE, *book review by* S. D'Agostino, 890
- Atwood, H. L. *See* Sherman, R. G.
- Auditory backward inhibition in concert halls, G. von Békésy, 529
- AUSTERN, N., Direct nuclear reaction theories, *book review of*, 273
- Australia: equal pay in 1972 (*letter*), C. Garrow, 849
- Ayala, F. J.: Competition between species: frequency dependence, 820
- Ayala, G. F., *et al.*: Penicillin as an epileptogenic agent: effect on an isolated synapse, 915

B

- Badash, L. *See* Garvey, B. S., Jr., *et al.*
- Bahr, G. F. *See* Golomb, H. M.
- BAKER, C. M. A. *See* MANWELL, C.
- Baker, F. H. *See* Weinstein, G. W., *et al.*
- Baker, R. H., *et al.*: Linkage group-chromosome correlation in *Culex tritaeniorhynchus*, 585
- Baldwin, G. S., and P. R. Carnegie: Specific enzymic methylation of an arginine in the experimental allergic encephalomyelitis protein from human myelin, 579
- BALDWIN, M. F., and J. K. PAGE, JR., Law and the environment, *book review of*, 665
- Ball, W., and E. Tronick: Infant responses to impending collision: optical and real, 818
- Bandler, R., Jr., and J. P. Flynn: Visual patterned reflex present during hypothalamically elicited attack, 817
- Barber, D. J., *et al.*: Extralunar dust in Apollo cores?, 372
- Barker, J. L., *et al.*: Supraoptic neurosecretory cells: adrenergic and cholinergic sensitivity, 208; Supraoptic neurosecretory cells: autonomic modulation, 206
- Barker, J. N. *See* Sechzer, J. A., *et al.*
- Barsky, D. *See* Sechzer, J. A., *et al.*
- Barth, R. H., Jr.: *book review of* The physiology of insect reproduction, 368
- Bartoshuk, L. M., *et al.*: Taste of water in the cat: effects on sucrose preference, 699
- Basso, K. H.: *book review of* Description

- and comparison in cultural anthropology, 996
- Battley, E. H. *See* Wurster, C. F., *et al.*
- Bawden, F. C.: *book review* of Plant virology, 275
- Baxter, J. D., *et al.*: Glucocorticoid receptors in lymphoma cells in culture: relationship to glucocorticoid killing activity, 189
- Bazell, R. (*News and Comment*): amphetamines for hyperkinetic children sanctioned, 1223; arid land agriculture, 989; Boston Hospital dispute, 358; cancer research proposals, 877; graduate support, 554; health insurance, 783; Lederberg opposes cancer authority, 1220; medical association sues California, 360; Michigan war research charged, 656; rapid transit, 1125; research funds asked by Nixon, 784; star bright, street light, 461; water pollution, 266
- Bean, W. B.: Walter Reed papers (*letter*), 19
- Beckwith, J., *et al.*: Political discussions at Gordon Conference (*letter*), 752
- "Before" and "after" photos (*letter*), R. E. McDermott, 959
- Bell, C., and S. Dray: Expression of allelic immunoglobulin in homozygous rabbits injected with RNA extract, 199
- Benedict, W. F., and M. Karon: Chromatid breakage: cytosine arabinoside-induced lesions inhibited by ultraviolet irradiation, 680
- BENNETT, J. W., Northern plainsmen, *book review* of, 884
- BERKOWITZ, A. E., and E. KNELLER (Eds.), Magnetism and metallurgy, *book review* of, 1002
- Berl, W. G.: Looking backward—Chicago AAAS annual meeting (AAAS), 716
- Bermant, G., and S. Chandrasekhar: Rescue plan for Indian monkeys (*letter*), 628
- Berns, M. W., *et al.*: Chromosome lesions produced with an argon laser microbeam without dye sensitization, 903
- Berwald-Netter, Y. *See* Frensdorff, A., *et al.*
- Bessman, S. P. *See* McCabe, E. R., *et al.*
- Betz, F., Jr.: *book review* of The geology of Western Europe, 162
- Bevan, W.: AAAS council meeting, 1970 (AAAS), 709
- Bickley, W. B., Jr. *See* Cvcancara, A. M., *et al.*
- Bignami, A., and H. B. Parry: Aggregations of 35-nanometer particles associated with neuronal cytopathic changes in natural scrapie, 389
- Bilateral symmetry in chick embryo determination by gravity, S. Kochav and H. Eyal-Giladi, 1027
- Billingham, R. E.: *book review* of Changing patterns, 999
- Binsack, J. H. *See* Mihalov, J. D., *et al.*
- Biochemistry of inorganic compounds of sulphur, The, A. B. ROY and P. A. TRUDINGER, *book review* by S. C. Rittenberg, 163
- Biochemistry of the phagocytic process, J. SCHULTZ (Ed.), *book review* by M. L. Karnovsky, 561
- Biological control of vectors, The (*meeting report*), M. Laird, 590
- Biology of the Porifera, The, W. G. FRY (Ed.), *book review* by G. Freeman, 56
- Biology of the Reptilia, C. GANS (Ed.), *book review* by G. R. Zug, 164
- Bisected brain, The, M. S. GAZZANIGA, *book review* by J. Semmes, 885
- Black, R. F. *See* Aigner, J. S., *et al.*
- Blake, B. J. *See* Meléndez, L. V., *et al.*
- Blake, C. A. *See* Weiner, R. I., *et al.*
- Blake, J.: Abortion and public opinion: the 1960-1970 decade, 540
- Blakemore, C., and B. Julesz: Stereoscopic depth aftereffect produced without monocular cues, 286
- Bleakney, W.: *book review* of High-velocity impact phenomena, 471
- BLEANEY, B. *See* ABRAGAM, A.
- BLICKENSTAFF, R. T. *See* HADD, H. E.
- Bloom, F. E. *See* Siggins, G. R., *et al.*
- Blowing of lunar soil by Apollo 12: Surveyor 3 evidence, L. D. Jaffe, 798
- Board, R. D. *See* Davis, R. E., *et al.*
- Boffey, P. M. (*News and Comment*): AAAS convention, 47; fellowship panel protests cutbacks, 1127; Fort Detrick laboratory threatened with extinction, 262; Hanford reactors, 555; herbicides in Vietnam, 43; jobless scientists, 985; Nader and the scientists, 549; Pine Bluff saved, 462; radiation standards, 780; science policy, 874; sea-level canal, 355; U.S. losing nerve to experiment?, 875
- Bomb craters (*letter*), A. H. Westing, 959
- Bone marrow transplantation, C. C Congdon, 1116
- BONHAM-CARTER, G. *See* HARBAUGH, J. W.
- Bottini, E., *et al.*: Favism: association with erythrocyte acid phosphatase phenotype, 409
- Boudart, M.: *book review* of Catalysis by nonmetals, 796
- Bourbaki, L. D. *See* De Volpi, A., *et al.*
- Bourke, P. M. A. *See* Wilkes, H. G.
- BOVEY, F. A., Polymer conformation and configuration, *book review* of, 273
- BOWKETT, K. M., and D. A. SMITH, Field-ion microscopy, *book review* of, 1003
- Boyer, S. H., *et al.*: Silent hemoglobin alpha genes in apes: potential source of thalassemia, 182
- Bradley, M. O. *See* Wessells, N. K., *et al.*
- Brady, U. E., *et al.*: Sex stimulant and attractant in the Indian meal moth and in the almond moth, 802
- Brand, L. *See* Seliskar, C. J.
- Branscomb, L. M.: Taming technology, 972
- Bray, J. R.: Solar-climate relationships in the post-Pleistocene, 1242
- Bressler, M.: *book review* of The greening of America, 1136
- Brewer, G. J., and J. W. Eaton: Erythrocyte metabolism: interaction with oxygen transport, 1205
- Briggs, J. M., Jr.: *book review* of Jean d'Alembert, 997
- Brophy, J. A. *See* Cvcancara, A. M., *et al.*
- Brown, D. G., and D. S. Coffey: Release of nuclear DNA template restrictions by specific polyribonucleotides, 176
- Brownlee, R. G. *See* Brady, U. E., *et al.*
- Brusilow, S. W. *See* Cohn, E. S., *et al.*
- Buchanan, W. *See* Weiss R. F., *et al.*
- Buettner-Janusch, J.: *book review* of The roots of mankind, 1230
- Bunney, W. E., Jr. *See* Paul, M. I., *et al.*
- Burbank, R. D., and G. R. Jones: Xenon hexafluoride: structural crystallography of tetrameric phases, 485
- Burghardt, G. M.: Chemical-cue preferences of newborn snakes: influence of prenatal maternal experience, 921
- BURNET, M., Changing patterns, *book review* of, 999
- Burstrom, H. G.: *book review* of Physiological aspects of crop yield, 56
- Busch, D. H.: Metal ion control of chemical reactions, 241
- Businco, L. *See* Bottini, E., *et al.*
- Butler, M. (*News and Comment*): New Scientist absorbs Science Journal, 157
- Butler, W. T. *See* Mestecky, J., *et al.*
- Byram, E. T. *See* Ramaty, R., *et al.*
- C**
- Cahill, G. F., Jr.: *book review* of Pathogenesis of diabetes mellitus, 1000
- Cairns, R. B.: *book review* of Development and evolution of behavior, 270
- Caldwell, L. K.: *book review* of Law and the environment, 665
- Campa, J. F., and W. K. Engel: Histochemical and functional correlations in anterior horn neurons of the cat spinal cord, 198
- Cancer research: once-over-lightly (*letter*), R. J. Huebner, 18
- CANN, J. R., Interacting macromolecules, *book review* of, 470
- Cantliffe, D. J. *See* Robinson, R. W., *et al.*
- CANTORE, E., Atomic order, *book review* of, 890
- Carbon, carbides, and methane in an Apollo 12 sample. S. Chang *et al.*, 474
- Carbon monoxide: its role in photochemical smog formation, K. Westberg *et al.*, 1013
- Carcinogen and microsomal membrane interactions: changes in membrane density and ability to bind nucleic acids, H. Kubinski and C. B. Kasper, 201
- Cardé, R. T. *See* Roelofs, W. L.
- Carey, K. L. *See* Lahman, H. S., *et al.*
- Carl Friedrich Gauss, T. HALL, *book review* by J. V. Grabner, 666
- Carlson, A. D. *See* Wurster, C. F., *et al.*
- Carnegie, P. R. *See* Baldwin, G. S.
- Carroll, J. D.: Participatory technology, 647
- Carter, J. L. *See* McKay, D. S., *et al.*
- Carter, L. J. (*News and Comment*): undergraduates at University of California at Santa Cruz, 153
- Catalano, L. W. *See* Nahmias, A. J., *et al.*
- Catalysis by nonmetals, O. V. KRYLOV, *book review* by M. Boudart, 796
- Cavonius, C. R. *See* Chapman, R. M., *et al.*
- Cebra, J. J. *See* Frensdorff, A., *et al.*
- Cell-free protein synthesizing system from yeast mitochondria, A. H. Scragg *et al.*, 908
- Cells capable of colony formation in the peripheral blood of man, K. B. McCredie *et al.*, 293
- CERASI, E., and R. LUFT (Eds.), Pathogenesis of diabetes mellitus, *book review* of, 1000
- Cerebellar hypoplasia in neonatal rats caused by lymphocytic choriomeningitis virus, A. A. Monjan *et al.*, 194
- Chandrasekhar, S. *See* Bermant, G.
- Chang, S., *et al.*: Carbon, carbides, and methane in an Apollo 12 sample, 474
- Changing patterns, M. BURNET, *book review* by R. E. Billingham, 999
- Chapman, R. M., *et al.*: Alpha and kappa electroencephalogram activity in eyless subjects, 1159
- Chemical-cue preferences of newborn snakes: influence of prenatal maternal experience, G. M. Burghardt, 921
- Chemical ecology, E. SONDEIMER and J. B. SIMEONE (Eds.), *book review* by C. H. Muller, 886
- Chemically induced porphyria: increased microsomal heme turnover after treatment with allylisopropylacetamide, U. A. Meyer and H. S. Marver, 64
- Chemistry of plutonium, J. M. CLEVELAND, *book review* by L. B. Asprey, 273
- Chemistry of the alkaloids, S. W. PELLETIER (Ed.), *book review* by T. Robinson, 1233
- Cheney, D. L., *et al.*: Narcotic tolerance and dependence: lack of relationship with serotonin turnover in the brain, 1169
- Cheng, W. K. *See* Berns, M. W., *et al.*
- Chi, C. C., and J. P. Flynn: Neural pathways associated with hypothalamically elicited attack behavior in cats, 703
- Chicago meeting, The (*editorial*), P. H. Abelson, 239
- Chiller, J. M., *et al.*: Kinetic differences in unresponsiveness of thymus and bone marrow cells, 813
- CHRISTIAN, G. D., and F. J. FELDMAN, Atomic absorption spectroscopy, *book review* of, 369

- Chromatid breakage: cytosine arabinoside-induced lesions inhibited by ultraviolet irradiation, W. F. Benedict and M. Karon, 680
- Chromosome lesions produced with an argon laser microbeam without dye sensitization, M. W. Berns *et al.*, 903
- Chubb, T. A. *See* Ramaty, R., *et al.*
- Claiborne, R.: Operant conditioning of POP (*letter*), 751
- Clark, K. B. *See* Gersoni, C. S.
- Classical conditioning of a complex skeletal response, E. Gamzu and D. R. Williams, 923
- Clayton, L. *See* Cvancara, A. M., *et al.*
- Clearer skies for astronomy (*letter*), C. H. Olin, 1200
- Clements, S. T. *See* Wilson, W. E., *et al.*
- CLEVELAND, J. M., The chemistry of plutonium, *book review of*, 273
- CLOUD, P. (Ed.), Adventures in earth history, *book review of*, 1234
- Clouds of Venus: evidence for their nature, J. E. Hansen and A. Arking, 669
- Coale, A. J. *See* Kamlet, K. S., *et al.*
- Coffey, D. S. *See* Brown, D. G.
- Cohen, G. *See* Redmond, G.
- Cohen, N. *See* Westberg, K., *et al.*
- COHEN, R. S., and R. J. SEEGER (Eds.), Ernst Mach, *book review of*, 471
- Cohen, S. *See* Ellinwood, E. H.
- Cohn, E. S., *et al.*: Ethacrynic acid effect on the composition of cochlear fluids, 910
- Cohn, M. *See* Baxter, J. D., *et al.*
- Cole, G. A., *See* Monjan, A. A., *et al.*
- Cole, L. C.: Origin of nitrogen (*letter*), 236
- College grades—success in life (*letter*), H. C. Lindgren, 232
- Communication in development, A. LANG (Ed.), *book review by* D. M. Fambrough, 1000
- Comparative physiology of thermoregulation, G. C. WHITLOW, *book review by* J. E. Heath, 1232
- Competition between species: frequency dependence, F. J. Ayala, 820
- Composition and evolution of the mantle and core, D. L. Anderson *et al.*, 1103
- Compound eyes: localization of two color receptors in the same ommatidium, M. I. Mote and T. H. Goldsmith, 1254
- Computation of chemical equilibria, The, F. VAN ZEGGEREN and S. H. STOREY, *book review by* F. O. Koenig, 163
- Computer-based interviewing system dealing with nonverbal behavior as well as keyboard responses, W. Slack, 84
- Computer simulation in geology, J. W. HARBAUGH and G. BONHAM-CARTER, *book review by* R. B. McCammon, 58
- Comstock, G. M. *See* Fleischer, R. L., *et al.*
- Comstock, R. E.: *book review of* An introduction to population genetics theory, 666
- Conditions favoring major advances in social science, K. W. Deutsch *et al.*, 450
- Conformational equilibria in spin-labeled hemoglobin, W. J. Deal *et al.*, 1147
- Congdon, C. C.: Bone marrow transplantation, 1116
- Conjugates of steroid hormones, H. E. HADD and R. T. BLICKENSTAFF, *book review by* W. H. Fishman, 1138
- Conrad, J. P., *et al.*: Debacle, disruptions, demagogues (*letters*), 230
- Conservation of orbital symmetry, The, R. B. WOODWARD and R. HOFFMANN, *book review by* R. G. Pearson, 272
- Conti, P. S. *See* van den Heuvel, E. P. J.
- Contours and contrast: responses of monkey lateral geniculate nucleus cells to luminance and color figures, R. L. De Valois and P. L. Pease, 694
- Control of agricultural pests (*editorial*), P. H. Abelson, 437
- Cook, R. T., *et al.*: Malaria resistance: artificial induction with a partially purified plasmodial fraction, 1175
- Cook, S. F., Jr. *See* Waldrop, H. A. *et al.*
- COOPER, H. S. F., JR., Moon rocks, *book review of*, 560
- Cooper, R. A., and J. R. Uzzmann: Migrations and growth of deep-sea lobsters *Homarus americanus*, 288
- Copulation and the inhibition of pregnancy in rats, P. Dziuk *et al.*, 311
- Corcoran, E. F. *See* Seba, D. B.
- Cordray, R. E. *See* De Volpi, A., *et al.*
- Correlation between gametophytic and sporophytic characteristics in *Zea mays* L., A. D. L. Mulcahy, 1155
- Correlational statistics and the nature-nurture problem, F. Weizmann, 589
- Corte, A. E. *See* Higashi, A.
- Costa, E. *See* Cheney, D. L., *et al.*
- COSTA, ERMINIO. *See* GREENGARD, P.
- Cotten, D., and W. L. Donn: Sound from Apollo rockets in space, 565
- Cover pictures: ambiguous figure (29 Jan.); branchial crown of *Sabella melanostigma* (26 Mar.); computer-generated perspective views (19 Feb.); dormant sycamore tree (8 Jan.); duiker (5 Feb.); eye movements and visual perception (22 Jan.); human red blood cell (5 Mar.); jet superimposed on sun (12 Feb.); littermates (12 Mar.); male gametes of the brown alga (26 Feb.); spear-nosed bat (15 Jan.); tunnel under San Francisco Bay (19 Mar.)
- Cowan, W. M. *See* Landau, W. M.
- Cowgill, G. L., *et al.*: People who see flying saucers (*letters*), 956
- Cowley, C. R.: *book review of* Stellar atmospheres, 1142
- Cox, A. *See* Doell, R. R.
- Cramer, H. *See* Paul, M. I., *et al.*
- Crawford, M. H.: Hemoglobin polymorphism, 706
- Crayton, J. W. *See* Barker, J. L., *et al.*
- Creeth, J. M.: *book review of* Interacting macromolecules, 470
- Cronin, T. E., and N. C. Thomas: Federal advisory processes: advice and discontent, 771
- CROOK, J. H. (Ed.), Social behaviour in birds and mammals, *book review of*, 668
- CROW, J. F., and M. KIMURA, An introduction to population genetics theory, *book review of*, 666
- Crozaz, G., and R. M. Walker: Solar particle tracks in glass from the Surveyor 3 spacecraft, 1237
- CROZE, H., Searching image in carrion crows, *book review of*, 667
- Cruickshank, A. M.: Gordon Research Conferences (*meeting report*), 1041
- Cudkowicz, G. *See* Miller, H. C.
- Curran, W. J.: *book review of* The human body and the law, 53
- Cvancara, A. M., *et al.*: Paleolimnology of late Quaternary deposits: Seibold site, North Dakota, 172
- Cyclic adenosine and guanosine monophosphates and glucagon: effect on liver membrane potentials, N. Friedmann *et al.*, 400
- Cyclic adenosine monophosphate and norepinephrine: effects on transmembrane properties of cerebellar Purkinje cells, G. R. Siggins *et al.*, 192
- Cytokinins: permissive role in seed germination, A. A. Khan, 853
- D**
- Dąbrowska, J.: Dissociation of impairment after lateral and medial prefrontal lesions in dogs, 1037
- D'Agostino, S.: *book review of* Atomic order, 890
- Dairman, W., and S. Udenfriend: Decrease in adrenal tyrosine hydroxylase and increase in norepinephrine synthesis in rats given L-dopa, 1022
- Dalezios, J., *et al.*: Aflatoxin P₁: a new aflatoxin metabolite in monkeys, 584
- Daly, P. *See* Drew, I. M., *et al.*
- Damadian, R.: Tumor detection by nuclear magnetic resonance, 1151
- Damiano, V. *See* Fleischmajer, R., *et al.*
- Daniel, M. D. *See* Meléndez, L. V., *et al.*
- Daniels, G. H.: *book review of* Science in the British colonies of America, 664
- Daniels, M., and W. Hauswirth: Fluorescence of the purine and pyrimidine bases of the nucleic acids in neutral aqueous solution at 300°K, 675
- D'Antonio, L. E. *See* Cook, R. T., *et al.*
- Davenport, D., and M. B. Jensen: Intrepid analysis of female scientists (*letters*), 521
- DAVIES, G. L., The earth in decay, *book review of*, 161
- Davis, R. E. (Purdue University), *et al.*: "Polywater": evidence from electron spectroscopy for chemical analysis (ESCA) of a complex salt mixture, 167
- Davis, R. E. (University of Michigan). *See* Agranoff, B. W., *et al.*
- Dawdy, D. R.: *book review of* Hydrological forecasting, 888
- Dawe, C. J., *et al.*: Epithelial origin of polyoma salivary tumors in mice: evidence based on chromosome-marked cells, 394
- Dawson, R. B., Jr.: *See* Norman, E. C.
- DDT: participation in ultraviolet-detectable, charge-transfer complexation, W. E. Wilson *et al.*, 180
- DDT proponents challenged (*letters*), C. F. Wurster *et al.*, 522
- Deal, W. J., *et al.*: Conformational equilibria in spin-labeled hemoglobin, 1147
- Debacle, disruptions, demagogues (*letters*), J. P. Conrad *et al.*, 230
- Decker, F. W. *See* Mayes, W. C.
- Decker, R. W.: *book review of* Volcanism and the upper mantle, 1141
- Decrease in adrenal tyrosine hydroxylase and increase in norepinephrine synthesis in rats given L-dopa, W. Dairman and S. Udenfriend, 1022
- Deep sea drilling: age and composition of an Atlantic basaltic intrusion, D. Macdougall, 1244
- Deficiencies of "pass-fail" (*letter*), W. F. Eberz, 1200
- Degrees Celsius—never centigrade (*letter*), H. H. Plumb, 628
- Delorme, L. D. *See* Cvancara, A. M., *et al.*
- Deluged by conservation appeals (*letter*), E. Epstein, 1200
- Denenberg, V. H. *See* Gandelman, R., *et al.*
- Density gradient separation of marrow cells restricted for antibody class, H. C. Miller and G. Cudkowicz, 913
- De Robertis, E.: Molecular biology of synaptic receptors, 963
- Description and comparison in cultural anthropology, W. H. GOODENOUGH, *book review by* K. H. Basso, 996
- Detection of air pollutants with tunable diode lasers, E. D. Hinkley and P. L. Kelley, 635
- Deutsch, K. W., *et al.*: Conditions favoring major advances in social science, 450
- De Valois, R. L., and P. L. Pease: Contours and contrast: responses of monkey lateral geniculate nucleus cells to luminance and color figures, 694
- Development and evolution of behavior, L. R. ARONSON *et al.* (Eds.), *book review by* R. B. Cairns, 270
- Development of excitability in embryonic muscle cell membranes in certain tunicates, K. Takahashi *et al.*, 415
- Development of polysensory responses in association cortex of kitten, K. S. Mayers *et al.*, 1038

- Developmental behaviors: delayed appearance in monkeys asphyxiated at birth, J. A. Sechzer *et al.*, 1173
- Developmental variation in the isoenzymes of human liver and gastric alcohol dehydrogenase, R. F. Murray, Jr., and A. G. Motulsky, 71
- De Volpi, A., *et al.*: Rebuttal (*letters*), 1199
- DE WILDE, J., and L. M. SCHOONHOVEN, Insect and host plant, *book review of*, 164
- Diamond, I. T. *See* Killackey, H.
- Dickinson, J. C., III, and J. W. Parker: Hydra-headed pesticides (*letters*), 16
- Direct nuclear reaction theories, N. AUSTERN, *book review by* J. F. Reading, 273
- Disjunct foliar veins in Hawaiian *Euphorbias*, D. Herbst, 1247
- Disputed discovery of element 105 (*letter*), A. Ghiorso, 127
- Dissociation of impairment after lateral and medial prefrontal lesions in dogs, J. Dąbrowska, 1037
- DNA synthesis in differentiating skeletal muscle cells: initiation by ultraviolet light, F. E. Stockdale, 1145
- Doctor of Arts degree (*letters*), J. B. Jenkins *et al.*, 234
- Doell, R. R., and A. Cox: Pacific geomagnetic secular variation, 248
- Doerr, P. *See* Aschoff, J., *et al.*
- Donaldson, L. J. *See* Boyer, S. H., *et al.*
- Donike, M. *See* Müller, D. G., *et al.*
- Donn, W. L. *See* Cotten, D.
- Dormancy of trees in winter, T. O. Perry, 29
- Doxiadis: interpretations (*letters*), H. S. Lahman *et al.*, 521
- Dragoin, W. B. *See* Wilcoxon, H. C., *et al.*
- Dray, S. *See* Bell, C.
- Drew, I. M., *et al.*: Prehistoric domestication of animals: effects on bone structure, 280
- Drewinko, B., *et al.*: Functional sequences modulated by morphological transitions in human lymphoid cells grown in vitro, 185
- Dubno, P. *See* Cowgill, G. L., *et al.*
- Dumond, D. E. *See* Aigner, J. S., *et al.*
- Dunstan, W. M. *See* Ryther, J. H.
- Dziuk, P., *et al.*: Copulation and the inhibition of pregnancy in rats, 311
- ### E
- Early racial and cultural identification in southwestern Alaska, J. S. Aigner *et al.*, 87
- Earth in decay, The, G. L. DAVIES, *book review by* K. L. Taylor, 161
- EASTIN, J. D., *et al.* (Eds.), Physiological aspects of crop yield, *book review of*, 56
- Eaton, J. W. *See* Brewer, G. J.
- Ebel, R. L.: When information becomes knowledge (*letter*), 130
- Eberz, W. F.: Deficiencies of "pass-fail" (*letter*), 1200
- Echolocation in bats: signal processing of echoes for target range, J. A. Simmons, 925
- Editing of *Science*, The (*editorial*), P. H. Abelson, 1101
- Editorials: The Chicago meeting, 239; Control of agricultural pests, 437; The editing of *Science*, 1101; Governance of the Association, 755; Higher education and the nation's health, 337; Interdisciplinary problem-oriented research in the university, 961; Marine pollution, 21; The need for quality filters in information systems, 133; Nobody ever dies of overpopulation, 527; The R & D processing of domestic programs, 1203; Science education—process or content?, 851; What is a fair price for oil?, 633
- Ehrlich, P. R., and J. P. Holdren: Impact of population growth, 1212
- EIBL-EIBESFELDT, I., Ethology, *book review of*, 53
- Eimas, P. D., *et al.*: Speech perception in infants, 303
- Eimhjellen, K. *See* Jannasch, H. W., *et al.*
- Eisenberg, D. *See* Heidner, E. G., *et al.*
- EISENBERG, J. M., and W. GREINER, Excitation mechanisms of the nucleus, *book review of*, 1140
- Electrical activity of the hypothalamus: effects of intraventricular catecholamines, R. I. Weiner *et al.*, 411
- Electron paramagnetic resonance of transition ions, A. ABRAGAM and B. BLEANEY, *book review by* W. Low, 1141
- Electron transfer reactions of complex ions in solution, H. TAUBE, *book review by* N. Sutin, 563
- Ellinwood, E. H., and S. Cohen: Amphetamine abuse (*meeting report*), 420
- Embryonic and neoplastic cell surfaces: availability of receptors for concanavalin A and wheat germ agglutinin, A. A. Moscona, 905
- Emerging Japanese superstate, The, H. KAHN, *book review of*, 467
- Emerson, C. P., Jr., and T. Humphreys: Ribosomal RNA synthesis and the multiple, atypical nucleoli in cleaving embryos, 898
- Emiliani, C.: The last interglacial: paleotemperatures and chronology, 571; Paleotemperature variations across the Plio-Pleistocene boundary, 60
- Emlen, J. M. *See* Wurster, C. F., *et al.*
- End to political science, An, M. SURKIN and A. WOLFE, *book review by* V. C. Ferkiss, 883
- Endogenetic craters interpreted from crater counts on the inner wall of Copernicus, R. Greeley and D. E. Gault, 477
- Engel, W. K. *See* Campa, J. F.
- ENGLEMANN, F., The physiology of insect reproduction, *book review of*, 368
- Environment: "goods and bads" (*letters*), K. S. Kamlet *et al.*, 15
- Environmental control of photosynthetic enhancement, T. Punnett, 284
- Epithelial origin of polyoma salivary tumors in mice: evidence based on chromosome-marked cells, C. J. Dawe *et al.*, 394
- Epstein, E.: Deluged by conservation appeals (*letter*), 1200
- Ernest, J. T. *See* Chapman, R. M., *et al.*
- Ernst Mach, R. S. COHEN and R. J. SEEGER (Eds.), *book review by* H. Feigl, 471
- Errera, M.: Forerunner of molecular biology (*letter*), 334
- Erythrocyte metabolism: interaction with oxygen transport, G. J. Brewer and J. W. Eaton, 1205
- Esoteric fish (*letter*), B. W. Agranoff *et al.*, 236
- Ethacrynic acid effect on the composition of cochlear fluids, E. S. Cohn *et al.*, 910
- Ethology, I. EIBL-EIBESFELDT, *book review by* R. J. Andrew, 53
- Etzioni, A. (*editorials*): The need for quality filters in information systems, 133; The R & D processing of domestic programs, 1203
- Euglossine bees as long-distance pollinators of tropical plants, D. H. Janzen, 203
- Evans, E. L., *et al.*: Kinetics of single-layer graphite oxidation: evaluation by electron microscopy, 174
- Evarts, E. V.: *book review of* Short-term changes in neural activity and behavior, 667
- Evolution in France (*letter*), G. Pasteur, 751
- Excitation mechanisms of the nucleus, J. M. EISENBERG and W. GREINER, *book review by* S. A. Moszkowski, 1140
- Experimental design and data news service, W. C. Mayes and F. W. Decker, 215
- Expertise at land grant colleges (*letter*) A. F. Sherf, 849
- Expression of allelic immunoglobulin in homozygous rabbits injected with RNA extract, C. Bell and S. Dray, 199
- Extracellular recordings from human retinal ganglion cells, G. W. Weinstein *et al.*, 1021
- Extralunar dust in Apollo cores?, D. J. Barber *et al.*, 372
- Eyal-Giladi, H. *See* Kochav, S.
- Eye lens color: formation and function: S. Zigman, 807
- ### F
- Factor VIII detection by hemagglutination inhibition: hemophilia A and von Willebrand's disease, D. P. Stites *et al.*, 196
- Fambrough, D. M.: *book review of* Communication in development, 1000
- Fan, K. *See* Mohit, B.
- Fanale, F. P., and D. B. Nash: Potassium-uranium systematics of Apollo 11 and Apollo 12 samples: implications for lunar material history, 282
- Farmanfarmaian, A. *See* Jannasch, H. W., *et al.*
- Faro, M. D. *See* Sechzer, J. A., *et al.*
- Fatranská, M. *See* Aschoff, J., *et al.*
- Favism: association with erythrocyte acid phosphatase phenotype, E. Bottini *et al.*, 409
- FDA: clinically meaningful data (*letter*), J. Freund and L. W. Preston, 334
- Federal advisory processes: advice and discontent, T. E. Cronin and N. C. Thomas, 771
- Federal government and the scientific community, The, P. Handler, 144
- Feeny, P. P.: *book review of* Insect and host plant, 164. *See also* Whittaker, R. H.
- Feigl, H.: *book review of* Ernst Mach, 471
- Feinstein, R.: Galápagos verging on desertification (*letter*), 128
- FELDMAN, F. J. *See* CHRISTIAN, G. D.
- Felsenstein, J.: *book review of* Mathematical topics in population genetics, 562
- Ferdon, E. N., Jr.: *book review of* Ancient Polynesian society, 793
- Ferkiss, V. C.: *book review of* An end to political science, 883
- Field-ion microscopy, K. M. BOWKETT and D. A. SMITH, *book review by* M. H. Richman, 1003
- Fienberg, S. E.: Randomization and social affairs: the 1970 draft lottery, 255
- Filliben, J. J. *See* Rosenblatt, J. R.
- Final word on defoliation effects (*letter*), E. W. Pfeiffer, 625
- Fine, J. *See* Parnas, I., *et al.*
- Fischer, W. H.: Atmospheric aerosol background level, 828
- Fishbein, L. *See* Wilson, W. E., *et al.*
- Fisher, B., *et al.*: A portal blood factor as the humoral agent in liver regeneration, 575
- Fisher, E. R. *See* Fisher, B., *et al.*
- Fishman, W. H.: *book review of* Conjugates of steroid hormones, 1138
- Fleischer, R. L., *et al.*: Very heavy solar cosmic rays: energy spectrum and implications for lunar erosion, 1240
- Fleischmajer, R., *et al.*: Scleroderma and the subcutaneous tissue, 1019
- Fleiss, J. L. *See* Loughman, W. D., *et al.*
- Fleming, T. H.: *Arctibeus jamaicensis*: delayed embryonic development in a neotropical bat, 402
- Fleury, P. A.: *book review of* The second international meeting on ferroelectricity, 564
- Floyd, A. D. *See* Berns, M. W., *et al.*

- Fluorescence of the purine and pyrimidine bases of the nucleic acids in neutral aqueous solution at 300°K, M. Daniels and W. Hauswirth, 675
- Flynn, J. P. See Bandler, R., Jr. See also Chi, C. C.
- Foa, U. G.: Interpersonal and economic resources, 345
- FOREMAN, H. (Ed.), Nuclear power and the public, *book review of*, 790
- Forerunner of molecular biology (*letter*), M. Errera, 334
- Fork, R. L.: Laser stimulation of nerve cells in *Aplysia*, 907
- Fossil penguin from the late Cenozoic of South Africa, G. G. Simpson, 1144
- FOX, M. S., and J. J. MACKENZIE: *book review of* "Population control" through nuclear pollution, 559
- Free-access higher education, W. W. WILLINGHAM, *book review by* B. S. Adams, 468
- Freeman, G.: *book review of* The biology of the Porifera, 56
- Freireich, E. J. See McCredie, K. B., *et al.*
- Frelinger, J. A.: Maternally derived transferrin in pigeon squabs, 1260
- Frensdorff, A., *et al.*: Selective stimulation of allelic expression: effect of antibodies to allotypic markers on lymphoid cells, 391
- Freund, J., and L. W. Preston: FDA: clinically meaningful data (*letter*), 334
- Friedman, H. See Ramaty, R., *et al.*
- Friedmann, Nadav, *et al.*: Primitive earth synthesis of nicotinic acid derivatives, 1026
- Friedmann, Naomi, *et al.*: Cyclic adenosine and guanosine monophosphates and glucagon: effect on liver membrane potentials, 400
- Friel, J. See Webb, W. B.
- FROMM, E., and M. MACCOBY, Social character in a Mexican village, *book review of*, 271
- FRY, W. G. (Ed.), The biology of the Porifera, *book review of*, 56
- Fuccillo, D. A. See Nahmias, A. J., *et al.*
- Fudenberg, H. H. See Stites, D. P., *et al.*
- Fukami, H. See Kuwahara, Y., *et al.*
- Functional sequences modulated by morphological transitions in human lymphoid cells grown in vitro, B. Drewinko *et al.* 185

G

- Gahan, P. B. See Lahman, H. S., *et al.*
- Galápagos verging on desecration (*letter*), R. Feinstein, 128
- GAMOW, G., My world line, *book review of*, 997
- Gamzu, E., and D. R. Williams: Classical conditioning of a complex skeletal response, 923
- Gandelman, R., *et al.*: Olfactory bulb removal eliminates maternal behavior in the mouse, 210
- GANS, C. (Ed.), Biology of the Reptilia, *book review of*, 164
- Garabedian, G. A.: Last word on yogurt-making (*letter*), 847
- Garcia, F. G. See Meléndez, L. V., *et al.*
- Garfinkel, S. B., and W. B. Mann: Measuring radioactive materials (*letter*), 433
- Garrow, C.: Australia: equal pay in 1972 (*letter*), 849
- Garvey, B. S., Jr., *et al.*: After the storm, 626
- Gass, H. H.: Skull from Spruce Swamp: case of cranial dysraphism, 1268
- Gault, D. E. See Greeley, R.
- GAZZANIGA, M. S., The bisected brain, *book review of*, 885
- Genetic restriction of energy conservation

- in *Schizophyllum*, R. M. Hoffman and J. R. Raper, 418
- Genetic theory and abnormal behavior, D. ROSENTHAL, *book review by* J. Shields, 367
- Genital herpesvirus hominis type 2 infection: an experimental model in cebus monkeys, A. J. Nahmias *et al.*, 297
- Geology of Western Europe, M. G. RUTTEN, *book review by* F. Betz, Jr., 162
- Geroulis, A. J. See Alivisatos, S. G. A., *et al.*
- Gerschenfeld, H. M.: Serotonin: two different inhibitory actions on snail neurons, 1252
- Gersoni, C. S., and K. B. Clark: Psychologists' preprint plans (*letters*), 525
- Gessa, G. L., *et al.*: Aphrodisiac effect of p-chlorophenylalanine, 706
- Ghiorso, A.: Disputed discovery of element 105 (*letter*), 127
- Ghormley, J. A., and C. J. Hochanadel: Amorphous ice: density and reflectivity, 62
- Ghose, S., and T. Tsang: Ordering of V²⁺, Mn²⁺, and Fe³⁺ ions in zoisite, Ca₂Al₂Si₂O₁₂ (OH), 374
- Giedke, H. See Aschoff, J., *et al.*
- GILBERT, J. R. See HANNA, M. G., JR., *et al.*
- Gilden, D. H. See Monjan, A. A., *et al.*
- Gillette, R. (*News and Comment*): Population Research Act, 1221; space shuttle, 991; trans-Alaska pipeline, 1130
- Glass, B.: Science: endless horizons or golden age?, 23; Science education—process or content (*editorial*), 851
- Glenn T. Seaborg: president-elect 1971 (AAAS), G. F. Tape, 707
- Glucocorticoid receptors in lymphoma cells in culture: relationship to glucocorticoid killing activity, J. D. Baxter *et al.*, 189
- GOFMAN, J. W. See TAMPLIN, A. R.
- Goldberg, M. E. See Wurtz, R. H.
- GOLDE, P. (Ed.), Women in the field, *book review of*, 1135
- Golden, J., and T. R. Mongan: Sulfur dioxide emissions from power plants: their effect on air quality, 381
- Goldich, S. S.: Lunar and terrestrial ilmenite basalt, 1245
- GOLDMAN, I. Ancient Polynesian society, *book review of*, 793
- Goldsmith, T. H. See Mote, M. I. See also Zimmerman, W. F.
- Goldstein, A. See Cheney, D. L., *et al.*
- Golomb, H. M., and G. F. Bahr: Scanning electron microscopic observations of surface structure of isolated human chromosomes, 1024
- GOODENOUGH, W. H., Description and comparison in cultural anthropology, *book review of*, 996
- Goodman, J. W. See Senyk, G., *et al.*
- Goodman, M.: *book review of* Polymer conformation and configuration, 273
- Gordes, E. H. See Cohn, E. S., *et al.*
- Gordon, R. A. See Cowgill, G. L., *et al.*
- Gordon Research Conferences (*meeting report*), A. M. Cruickshank, 1041
- GORSHKOV, G. S., Volcanism and the upper mantle, *book review of*, 1141
- Gossington, R. E. See Agranoff, B. W., *et al.*
- Governance of the Association (*editorial*), L. M. Rieser, 755
- gow, A. J., *et al.* (Eds.), International Symposium on Antarctic Glaciological Exploration (ISAGE), *book review of*, 369
- Grabner, J. V.: *book review of* Carl Friedrich Gauss, 666
- Graham, C. See Nahmias, A. J., *et al.*
- Grant, E.: *book review of* Medicine in medieval England, 55
- GRASSE, P.-P., Traité de zoologie, *book review of*, 164
- Gray, C. W. See Boyer, S. H., *et al.*

- Greeley, R., and D. E. Gault: Endogenetic craters interpreted from crater counts on the inner wall of Copernicus, 477
- Green, D. E.: *book review of* Handbook of molecular cytology, 274
- Greengard, P. See McAfee, D. A., *et al.*
- GREENGARD, P., and E. COSTA (Eds.), Role of cyclic AMP in cell function, *book review of*, 1229
- Greenhouse, G. A., *et al.*: Sea urchin embryos are permeable to actinomycin, 686
- Greening of America, The, C. A. REICH, *book review by* M. Bressler, 1136
- Greenwood, W. R. See McKay, D. S., *et al.*
- GREGORY, R. L., The intelligent eye, *book review of*, 365
- GREINER, W. See EISENBERG, J. M.
- Griffiths, R. J. M. See Evans, E. L., *et al.*
- Grizzlies: to spare or banish (*letters*), H. A. Waldrop *et al.*, 431
- Gross, P. R. See Greenhouse, G. A., *et al.*
- Gross, W. A. See Kamlet, K. S., *et al.*
- Grossberg, S. E., and P. S. Morahan: Repression of interferon action: induced dedifferentiation of embryonic cells, 77
- Grunwald, E.: *book review of* Acidity functions, 1001
- GUILLAIN, R., The Japanese challenge, *book review of*, 467
- Gummit, R. J. See Ayala, G. F., *et al.*
- Gutierrez, S. See Sechzer, J. A., *et al.*
- Guttman, H. N.: Internal cellular details of *Euglena gracilis* visualized by scanning electron microscopy, 290

H

- Habicht, G. S. See Chiller, J. M., *et al.*
- HADD, H. E., and R. T. BLICKENSTAFF, Conjugates of steroid hormones, *book review of*, 1138
- Hadjimichael, E.: *book review of* Three body problem in nuclear and particle physics, 562
- Hailman, J. P.: *book review of* Animal behaviour, 998
- HALL, T., Carl Friedrich Gauss, *book review of*, 666
- Halpern, B. P., and D. N. Tapper: Taste stimuli: quality coding time, 1256
- Halvorson, H. O. See Scragg, A. H., *et al.*
- Hamlin, R. M., Jr. See Shah, D. O.
- Hammond, A. L. (*News and Comment*): federal R&D, 657; (*Research Topics*): accelerator at Batavia, 362; mercury in the environment, 788; stellar old age, 994, 1133, 1228
- Hanchey, P. See Wheeler, H.
- Handbook of molecular cytology, A. LIMA-DE-FARIA (Ed.), *book review by* D. E. Green, 274
- Handler, P.: The federal government and the scientific community, 144
- HANKINS, T. L., Jean d'Alembert, *book review of*, 997
- HANNA, M. G., JR., *et al.* (Eds.), Inhalation carcinogenesis, *book review of*, 55
- Hansen, J. E., and A. Arking: Clouds of Venus: evidence for their nature, 669
- Hara, H. See Kuwahara, Y., *et al.*
- Haramura, H. See Kushi, I.
- HARBAUGH, J. W., and G. BONHAM-CARTER, Computer simulation in geology, *book review of*, 58
- Hardin, G. (*editorial*): Nobody ever dies of overpopulation, 527
- Harned, M. A. See Bartoshuk, L. M., *et al.*
- Harris, A. W. See Baxter, J. D., *et al.*
- Harris, C. B.: *book review of* Methods of molecular quantum mechanics, 795
- Harris, M. (*Research Topics*): mutagenicity of chemicals and drugs, 51
- Hart, H. R., Jr. See Fleischer, R. L., *et al.*

- HASKINS, F. A. *See* EASTIN, J. D., *et al.*
 Hauswirth, W. *See* Daniels, M.
 Hearon, E. C. *See* Dawe, C. J., *et al.*
 Heath, J. E.: *book review* of Comparative physiology of thermoregulation, 1232
 Heidner, E. G., *et al.*: Subunit structure of aldolase, 677
 Heilbron, J. L.: *book review* of Paul Ehrenfest, 558
 Hemoglobin polymorphism, M. H. Crawford, 706
 Henle, M.: *book review* of The intelligent eye, 365
 Herbst, D.: Disjunct foliar veins in Hawaiian *Euphorbias*, 1247
 Herpesvirus antigens on cell membranes detected by centrifugation of membrane-antibody complexes, B. Roizman and P. G. Spear, 298
 Hersh, E. M. *See* McCredie, K. B., *et al.*
 Hershgold, E. J. *See* Stites, D. P., *et al.*
 Herskowitz, I. *See* Beckwith, J., *et al.*
 Higashi, A., and A. E. Corte: Solifluction: a model experiment, 480
 High-velocity impact phenomena, R. KINSLOW (Ed.), *book review* by W. Bleakney, 471
 Higher education and the nation's health (*editorial*), J. H. Knowles, 337
 HINDE, R. A., Animal behaviour, *book review* of, 998. *See also* HORN, G.
 Hinkley, E. D., and P. L. Kelley: Detection of air pollutants with tunable diode lasers, 635
 HIRSCH, E. F. (Ed.), The innervation of the vertebrate heart, *book review* of, 1138
 Histochemical and functional correlations in anterior horn neurons of the cat spinal cord, J. F. Campa and W. K. Engel, 198
 History and stability of atmospheric oxygen, The, L. Van Valen, 439
 Hobson, R. R. *See* Weinstein, G. W., *et al.*
 Hochanadel, C. J. *See* Ghormley, J. A.
 Hoffer, B. J. *See* Siggins, G. R., *et al.*
 Hoffman, R. M., and J. R. Raper: Genetic restriction of energy conservation in *Schizophyllum*, 418
 HOFFMANN, R. *See* WOODWARD, R. B.
 Holden, C. (*News and Comment*): Carnegie plans telescope in Chile, 557; corporate responsibility, 463; higher education, 1129, 1225; NAS-NAE panel kicks over traces, 781; Nixon environment package, 659; open university is born, 881; radiation law loses in Minnesota, 45
 Holdren, J. P. *See* Ehrlich, P. R.
 Hölldobler, B.: Homing in the harvester ant *Pogonomyrmex badius*, 1149
 Holmes, J. C. *See* Johnson, C. Y., *et al.*
 Holzman, B. G.: La Porte precipitation fallacy (*letter*), 847
 Homing in the harvester ant *Pogonomyrmex badius*, B. Hölldobler, 1149
 HORN, G., and R. A. HINDE (Eds.), Short-term changes in neural activity and behavior, *book review* of, 667
 Horn, J. L., and P. D. Knott: Activist youth of the 1960's: summary and prognosis, 977
 Hose, R. K. *See* Wurster, C. F., *et al.*
 Hoyer, R. F. *See* Terriere, L. C., *et al.*
 Hubschman, J. H.: Lake Erie: pollution abatement, then what?, 536
 Huebner, R. J.: Cancer research: once-over-lightly (*letter*), 18
 Huertas, F. *See* Linares, J.
 Human body and the law, The, D. W. MEYERS, *book review* by W. J. Curran, 53
 Human circadian rhythms in continuous darkness: entrainment by social cues, J. Aschoff *et al.*, 213
 Humphreys, L. G. *See* Conrad, J. P., *et al.*
 Humphreys, T. *See* Emerson, C. P., Jr.
 Hunt, R. D. *See* Meléndez, L. V., *et al.*
 Hutcheon, I. *See* Barber, D. J., *et al.*
 Hybrid cell line from a cloned immunoglobulin-producing mouse myeloma and a nonproducing mouse lymphoma, B. Mohit and K. Fan, 75
 Hydra-headed pesticides (*letters*), J. C. Dickinson, III, and J. W. Parker, 16
 Hydrocarbon sex pheromone in tiger moths (Arctiidae), W. L. Roelofs and R. T. Cardé, 684
 Hydrocortisone-mediated increase of norepinephrine uptake by brain slices, J. W. Maas and M. Mednieks, 178
 Hydrological forecasting, *book review* by D. R. Dawdy, 888
 Hynes, R. O. *See* Greenhouse, G. A., *et al.*
 Hyperoxaluria in L-glyceric aciduria: possible pathogenic mechanism, H. E. Williams and L. H. Smith, Jr., 390
- I**
- Illness-induced aversions in rat and quail: relative salience of visual and gustatory cues, H. C. Wilcoxon *et al.*, 826
 Immunogenicity of glucagon: determinants responsible for antibody binding and lymphocyte stimulation, G. Senyk *et al.*, 407
 Immunoglobulin M and secretory immunoglobulin A: presence of a common polypeptide chain different from light chains, J. Mestecky *et al.*, 1163
 Impact of population growth, P. R. Ehrlich and J. P. Holdren, 1212
 Impurity spectra of solids, K. K. REBANE, *book review* by M. D. Sturge, 1003
 Increasing the multiplicity of ribosomal RNA genes in *Drosophila melanogaster*, K. D. Tartof, 294
 Induction of liver acetaldehyde dehydrogenase: possible role in ethanol tolerance after exposure to barbiturates, G. Redmond and G. Cohen, 387
 Induction of microsomal oxidase in *F₁* hybrids of a high and a low oxidase housefly strain, L. C. Terriere *et al.*, 581
 Industry and academe: closer ties (*letter*), D. F. Parsons, 846
 Inesi, G.: *p*-Nitrophenyl phosphate hydrolysis and calcium ion transport in fragmented sarcoplasmic reticulum, 901
 Infant responses to impending collision: optical and real, W. Ball and E. Tronick, 818
 Infectious goiter, W. T. London and R. L. Vought, 928
 Inhalation carcinogenesis, M. G. HANNA, JR., *et al.* (Eds.), *book review* by K. H. Kilburn, 55
 Innervation of the vertebrate heart, The, E. F. HIRSCH (Ed.), *book review* by L. L. Ross, 1138
 Insect and host plant, J. DE WILDE and L. M. SCHOONHOVEN (Eds.), *book review* by P. Feeny, 164
 Insect control by genetic manipulation of natural populations, M. J. Whitten, 682
 Insect hormones, V. B. WIGGLESWORTH, *book review* by J. W. Truman, 794
 Intelligent eye, The, R. L. GREGORY, *book review* by M. Henle, 365
 Interacting macromolecules, J. R. CANN, *book review* by J. M. Creeth, 470
 Interdisciplinary problem-oriented research in the university (*editorial*), F. A. Long, 961
 Internal cellular details of *Euglena gracilis* visualized by scanning electron microscopy, H. N. Guttman, 290
 International Association of Microbiological Societies (*letter*), A. F. Langlykke, 626
 International Symposium on Antarctic Glaciological Exploration (ISAGE), A. J. GOW *et al.* (Eds.), *book review* by J. H. Zumberge, 369
 Interpersonal and economic resources, U. G. Foa, 345
 Intrepid analysis of female scientists (*letters*), D. Davenport and M. B. Jensen, 521
 Introduction to population genetics theory, An, J. F. CROW and M. KIMURA, *book review* by R. E. Comstock, 666
 In-water photography, L. E. MERTENS, *book review* by A. C. Vine, 1001
 Ishii, S. *See* Kuwahara, Y., *et al.*
 Ivano, B. *See* De Volpi, A., *et al.*
- J**
- Jacob, A. F. *See* Cvancara, A. M., *et al.*
 Jaenicke, L. *See* Müller, D. G., *et al.*
 Jaffe, B. M., *et al.*: Radioimmunoassay for prostaglandins, 494
 Jaffe, L. D.: Blowing of lunar soil by Apollo 12: Surveyor 3 evidence, 798
 Jannasch, H. W., *et al.*: Microbial degradation of organic matter in the deep sea, 672
 Janzen, D. H.: Euglossine bees as long-distance pollinators of tropical plants, 203
 Japanese challenge, The, R. GUILLAIN, *book review* of, 467
 Jarvik, L. F. *See* Loughman, W. D., *et al.*
 J.C.T.: environmental scapegoat (*letters*), R. Roy and T. H. Jukes, 128
 Jean d'Alembert, T. L. HANKINS, *book review* by J. M. Briggs, Jr., 997
 Jenkins, J. B., *et al.*: Doctor of Arts degree (*letters*), 234
 JENKINS, S. H., Advances in water pollution research, *book review* of, 469
 Jensen, M. B. *See* Davenport, D.
 Johnson, C.: *book reviews* of The emerging Japanese superstate and The Japanese challenge, 467
 Johnson, C. Y., *et al.*: Magnetoglow: a new geophysical resource, 379
 Jones, G. R. *See* Burbank, R. D.
 Jones, P. P. *See* Frensdorff, A., *et al.*
 Jordon, T. *See* Anderson, D. L., *et al.*
 Judd, J. B. *See* Lynts, G. W.
 Jukes, T. H. *See* Rustum, R.
 Julez, B. *See* Blakemore, C.
 Jusczyk, P. *See* Eimas, P. D., *et al.*
- K**
- Kamlet, K. S., *et al.*: Environment: "goods and bads" (*letters*), 15
 Kaolinite: synthesis at room temperature, J. Linares and F. Huertas, 896
 Kaplan, I. R. *See* Chang, S., *et al.*
 Karnovsky, M. L.: *book review* of Biochemistry of the phagocytic process, 561
 Karon, M. *See* Benedict, W. F.
 Kasper, C. B. *See* Kubinski, H.
 KEELER, C. *See* GOW, A. J., *et al.*
 Kelley, P. L. *See* Hinkley, E. D.
 Kelley, W. N. *See* McDonald, J. A.
 Kennedy, B. G.: Mass transit: a cop out (*letter*), 1200
 Kennett, J. P., *et al.*: Paleomagnetic chronology of Pliocene-Early Pleistocene climates and the Plio-Pleistocene boundary in New Zealand, 276
 Khan, A. A.: Cytokinins: permissive role in seed germination, 853
 KHAN, H., The emerging Japanese superstate, *book review* of, 467
 Kidokoro, Y. *See* Takahashi, K., *et al.*
 Kilburn, K. H.: *book review* of Inhalation carcinogenesis, 55
 Killackey, H., and I. T. Diamond: Visual attention in the tree shrew: an ablation study of the striate and extrastriate visual cortex, 696
 KIMURA, M. *See* CROW, J. F.
 Kinetic differences in unresponsiveness of thymus and bone marrow cells, J. M. Chiller *et al.*, 813

- Kinetics of single-layer graphite oxidation: evaluation by electron microscopy, E. L. Evans *et al.*, 174
- KING, R. C., Ovarian development in *Drosophila melanogaster*, book review of, 368
- KINSLOW, R. (Ed.), High-velocity impact phenomena, book review of, 471
- Kitamura, C. See Kuwahara, Y., *et al.*
- KLEIN, M. J., Paul Ehrenfest, book review of, 558
- Klein, O.: Arguments concerning relativity and cosmology, 339
- Klopfer, P. H.: book review of Searching image in carrion crows, 667
- KNELLER, E. See BERKOWITZ, A. E.
- Knott, P. D. See Horn, J. L.
- Knowles, J. H. (editorial): Higher education and the nation's health, 337
- Knutsen, T. See Dawe, C. J., *et al.*
- Kochav, S., and H. Eyal-Giladi: Bilateral symmetry in chick embryo determination by gravity, 1027
- Koenig, F. O.: book review of The computation of chemical equilibria, 163
- KOJIMA, K.-I., Mathematical topics in population genetics, book review of, 562
- Kontras, S. B. See Somerson, N. L., *et al.*
- Kormondy, E. J. See Jenkins, J. B., *et al.*
- KOTANI, M. (Ed.), Advances in biophysics, book review of, 890
- Krabbe's globoid cell leukodystrophy: deficiency of galactocerebrosidase in serum, leukocytes, and fibroblasts, Y. Suzuki and K. Suzuki, 73
- Kral, P. A. See Wilcoxon, H. C., *et al.*
- KRYLOV, O. V., Catalysis by nonmetals, book review of, 796
- Kubinski, H., and C. B. Kasper: Carcinogen and microsomal membrane interactions: changes in membrane density and ability to bind nucleic acids, 201
- Kushiro, I., and H. Haramura: Major element variation and possible source materials of Apollo 12 crystalline rocks, 1235
- Kuwahara, Y., *et al.*: Sex pheromone of the almond moth and the Indian meal moth: *cis*-9-*trans*-12-tetradecadienyl acetate, 801
- Kvenvolden, K. See Chang, S., *et al.*
- Kyser, D. S., *et al.*: What substitute for cars? (letters), 335
- ### L
- Lahman, H. S., *et al.*: Doxiadis: interpretations (letters), 521
- Laird, M.: The biological control of vectors (meeting report), 590
- Lake Erie: pollution abatement, then what?, J. H. Hubschman, 536
- Lammers, G. E. See Cvancara, A. M., *et al.*
- Land, E. H.: Addiction as a necessity and opportunity, 151
- Landau, E.: Pollution and privilege (letter), 625
- Landau, W. M., and W. M. Cowan: Anointed but not appointed (letter), 1098
- LANDMARK, B. J. See THOMAS, J. O.
- LANG, A., Communication in development, book review of, 1000
- Lang, S. B.: book review of Strength of biological materials, 57
- Langlykke, A. F.: International Association of Microbiological Societies (letter), 626
- LANGWAY, C. C. See GOW, A. J., *et al.*
- La Porte precipitation fallacy (letter), B. G. Holzman, 847
- Laser stimulation of nerve cells in *Aplysia*, R. L. Fork, 907
- Last interglacial, The: paleotemperatures and chronology, C. Emiliani, 571
- Last word on yogurt-making (letter), G. A. Garabedian, 847
- Late Pleistocene paleotemperatures at Tongue of the Ocean, Bahamas, G. W. Lynts and J. B. Judd, 1143
- Latin America's employment problem, W. C. Thiesenhusen, 868
- Laughlin, W. S. See Aigner, J. S., *et al.*
- Law and the environment, M. F. BALDWIN and J. K. PAGE, JR. (Eds.), book review by L. K. Caldwell, 665
- Lawless, J. See Chang, S., *et al.*
- Layne, E. C. See McCabe, E. R., *et al.*
- Lee, C. O. See Armstrong, W. M.
- LEHRMAN, D. S. See ARONSON, L. R., *et al.*
- Leith, C. E.: book review of Man's impact on the global environment, 365
- Lentz, T. L.: Nerve trophic function: in vitro assay of effects of nerve tissue on muscle cholinesterase activity, 189
- Leone, M. P.: book review of Northern plainsmen, 884
- Lesch-Nyhan syndrome: altered kinetic properties of mutant enzyme, J. A. McDonald and W. N. Kelley, 689
- Levine, M. See Fisher, B., *et al.*
- LeVine, R. A.: book review of Social character in a Mexican village, 271
- Levine, S., and R. Sowinski: Allergic encephalomyelitis: new form featuring polymorphonuclear leukocytes, 498
- Levitt, L. P. See Alivisatos, S. G. A., *et al.*
- Libby, W. F.: Promising catalyst for auto exhaust, 499
- LIMA-DE-FARIA, A. (Ed.), Handbook of molecular cytology, book review of, 274
- Linares, J., and F. Huertas: Kaolinite: synthesis at room temperature, 896
- Lindgren, H. C.: College grades—success in life (letter), 232
- Linkage group—chromosome correlation in *Culex tritaeniorhynchus*, R. H. Baker *et al.*, 585
- Living and fossil brachiopods, M. J. S. RUDWICK, book review by B. Waterhouse, 1233
- Loevinger, L.: book review of Nuclear power and the public, 790
- Lohrmann, R., and L. E. Orgel: Urea—inorganic phosphate mixtures as prebiotic phosphorylating agents, 490
- Lombardo, J. P. See Weiss, R. F., *et al.*
- London, W. T. See Nahmias, A. J., *et al.*
- Long, F. A.: Interdisciplinary problem-oriented research in the university (editorial), 961
- Longo, L. D., and G. G. Power: "Science is too important to stay out of politics" (letter), 334
- Looking backward—Chicago AAAS annual meeting (AAAS), W. G. Berl, 716
- Loughman, W. D., *et al.*: Acetylsalicylic acid and chromosome damage, 829
- Lovell, W. S. See Peters, F. N.
- Low, W.: book review of Electron paramagnetic resonance of transition ions, 1141
- Lowenstam, H. A.: Opal precipitation by marine gastropods (Mollusca), 487
- Lowenstein, J., and K. Tornheim: Ammonia production in muscle: the purine nucleotide cycle, 397
- Lowrie, D. C. See Waldrop, H. A., *et al.*
- Lucarelli, P. See Bottini, E., *et al.*
- Luce, R. D.: book review of The measurement of sensation, 165
- Luduena, M. A. See Wessells, N. K., *et al.*
- LUFT, R. See CERASI, E.
- Lunar and terrestrial ilmenite basalt, S. S. Goldich, 1245
- Lunar metallic particle ("mini-moon"): an interpretation, D. S. McKay *et al.*, 479
- Lunar rocks, The, B. MASON and W. G. MELSON, book review by D. R. Wones, 560
- Lund, J. S. See Lund, R. D.
- Lund, R. D., and J. S. Lund: Synaptic adjustment after deafferentation of the superior colliculus of the rat, 804
- Lurie, N. O.: book review of Women in the field, 1135
- Lusted, L. B.: Signal detectability and medical decision-making, 1217
- Lynts, G. W., and J. B. Judd: Late Pleistocene paleotemperatures at Tongue of the Ocean, Bahamas, 1143
- ### M
- Maas, J. W., and M. Mednieks: Hydrocortisone-mediated increase of norepinephrine uptake by brain slices, 178
- MACCOBY, M. See FROMM, E.
- MACDONALD, G. A., and A. T. ABBOTT: Volcanoes in the sea, book review of, 887
- Macdougall, D.: Deep sea drilling: age and composition of an Atlantic basaltic intrusion, 1244
- Mack, S. B. (News and Comment): National Medal of Science winners, 464
- MacKenzie J. J. See Fox, M. S.
- Magasanik, B.: Women, please apply (letter), 631
- Mage, R. See Frensdorff, A., *et al.*
- Maggi, V. See Lahman, H. S., *et al.*
- Magnetic domains, R. S. TEBBLE, book review by T. Mihalisin, 1140
- Magnetic resonances and waves in simple metals, W. M. Walsh, Jr., 36
- Magnetism and metallurgy, A. E. BERKOWITZ and E. KNELLER (Eds.), book review by T. Mihalisin, 1002
- Magnetoglow: a new geophysical resource, C. Y. Johnson *et al.*, 379
- Maize from an Adena mound in Athens County, Ohio, J. L. Murphy, 897
- Major element variation and possible source materials of Apollo 12 crystalline rocks, I. Kushiro and H. Haramura, 1235
- Makinodan, T. See Price, G. B., *et al.*
- Malaria resistance: artificial induction with a partially purified plasmodial fraction, R. T. Cook *et al.*, 1175
- Male bias of NIH (letter), F. Moog, 236
- Mammalian scent marking, K. Ralls, 443
- MANLY, R. S., Adhesion in biological systems, book review of, 274
- Mann, W. B. See Garfinkel, S. B.
- Manned space exploration (letter), W. Weaver, 752
- Man's impact on the global environment, book review by C. E. Leith, 365
- MANWELL, C., and C. M. A. BAKER, Molecular biology and the origin of species, book review of, 1231
- Margoshes, M.: book review of Atomic absorption spectroscopy, 369
- Marine pollution (editorial), P. H. Abelson, 21
- Martens, H. H. See Whitnack, G. C.
- Marver, H. S. See Meyer, U. A.
- Marx, L. See Schneider, H. K., *et al.*
- MASON, B., and W. G. MELSON, The lunar rocks, book review of, 560
- Mass transit: a cop out (letter), B. G. Kennedy, 1200
- Maternally derived transferrin in pigeon squabs, J. A. Frelinger, 1260
- Mathematical topics in population genetics, K.-I. KOJIMA (Ed.), book review by J. Felsenstein, 562
- MATTHEWS, R. E. F., Plant virology, book review of, 275
- Mauer, I. See Loughman, W. D., *et al.*
- MAUNDER, W. J., The value of the weather, book review of, 57
- Mayer, A. M. See Meyer, H.
- Mayers, K. S., *et al.*: Development of polysensory responses in association cortex of kitten, 1038
- Mayes, W. C., and F. W. Decker: Experimental design and data news service, 215
- McAfee, D. A., *et al.*: Adenosine 3',5'-monophosphate in nervous tissue: in-

- crease associated with synaptic transmission, 1156
- McBirney, A. R.: *book review* of Volcanoes in the sea, 887
- McCabe, E. R., *et al.*: Synergy of ethanol and a natural soporific—gamma hydroxybutyrate, 404
- McCammon, R. B.: *book review* of Computer simulation in geology, 58
- McCord, T. B. *See* Adams, J. B.
- McCredie, K. B., *et al.*: Cells capable of colony formation in the peripheral blood of man, 293
- McDermott, R. E.: "Before" and "after" photos (*letter*), 959
- McDonald, J. A., and W. N. Kelley: Lesch-Nyhan syndrome: altered kinetic properties of mutant enzyme, 689
- McEnroe, W. D.: Phenylthioacetate as a stain for cholinesterase, 928
- McKay, D. S., *et al.*: Lunar metallic particle ("mini-moon"): an interpretation, 479
- McKEE, J. S. C., and P. M. ROLPH (Eds.), Three body problem in nuclear and particle physics, *book review* of, 562
- McMillan, C.: Photoperiod evidence in the introduction of *Xanthium* (cocklebur) to Australia, 1029
- McNamara, A. L. *See* Smith, D. W. E.
- MCWEENY, R., and B. T. SUTCLIFFE, Methods of molecular quantum mechanics, *book review* of, 795
- Measurement of sensation, The, C. W. SAVAGE, *book review* by R. D. Luce, 165
- Measuring radioactive materials (*letter*), S. B. Garfinkel and W. B. Mann, 433
- Medicine in medieval England, C. H. TALBOT, *book review* by E. Grant, 55
- Mednieks, M. *See* Maas, J. W.
- Meetings: Amorphous clay materials, 91; Amphetamine abuse, 420; Application of the physical sciences to archeology, 831; The biological control of vectors, 590; Gordon Research Conferences, 1041; Prostaglandins, 502
- Melatonin: effect on punished and non-punished operant behavior of the pigeon, R. I. Schoenfeld, 1258
- Melchior, N. C., *et al.*: Potassium-adenosine triphosphate complex: values of and uses for its formation constant, 1267
- Meléndez, L. V., *et al.*: Acute lymphocytic leukemia in owl monkeys inoculated with *Herpesvirus saimiri*, 1161
- MELSON, W. G. *See* MASON, B.
- Mendelson, M.: Oscillator neurons in crustacean ganglia, 1170
- Mental rotation of three-dimensional objects, R. N. Shepard and J. Metzler, 701
- Merlino, S., and F. Sartori: Ammonio-borite: new borate polyion and its structure, 377
- MERTENS, L. E., In-water photography, *book review* of, 1001
- Mestecky, J., *et al.*: Immunoglobulin M and secretory immunoglobulin A: presence of a common polypeptide chain different from light chains, 1163
- Metal ion control of chemical reactions, D. H. Busch, 241
- Methods of molecular quantum mechanics, R. MCWEENY and B. T. SUTCLIFFE, *book review* by C. B. Harris, 795
- Metzler, J. *See* Shepard, R. N.
- Meyer, H., and A. M. Mayer: Permeation of dry seeds with chemicals: use of dichloromethane, 583
- Meyer, T. S. *See* Alivisatos, S. G. A., *et al.*
- Meyer, U. A., and H. S. Marver: Chemically induced porphyria: increased microsomal heme turnover after treatment with allylisopropylacetamide, 64
- MEYERS, D. W., The human body and the law, *book review* of, 53
- Mian, A. *See* Baker, R. H., *et al.*
- Microbial degradation of organic matter in the deep sea, H. W. Jannasch *et al.*, 672
- Microfilaments in cellular and developmental processes, N. K. Wessells *et al.*, 135
- Middlehurst, B. M.: *book review* of The atlas of the universe, 888
- Migrations and growth of deep-sea lobsters *Homarus americanus*, R. A. Cooper and J. R. Uzzmann, 288
- MIHALAS, D., Stellar atmospheres, *book review* of, 1142
- Mihalisin, T.: *book reviews* of Magnetic domains, 1140; Magnetism and metallurgy, 1002
- Mihalov, J. D., *et al.*: Possible fossil lunar magnetism inferred from satellite data, 892
- Mikhail Vasil'evich Lomonosov on the corpuscular theory, *book review* by R. Siegfried, 1231
- Miller, H. C., and G. Cudkowicz: Density gradient separation of marrow cells restricted for antibody class, 913
- Miller, S. L. *See* Friedmann, Nadav, *et al.*
- Miyazaki, S.-I. *See* Takahashi, K., *et al.*
- Modak, S. P. *See* Price, G. B., *et al.*
- Mohan, M. S. *See* Melchior, N. C., *et al.*
- Mohit, B., and K. Fan: Hybrid cell line from a cloned immunoglobulin-producing mouse myeloma and a nonproducing mouse lymphoma, 75
- Mohlman, S. G. *See* Deal, W. J., *et al.*
- Molecular biology and the origin of species, C. MANWELL and C. M. A. BAKER, *book review* by L. H. Throckmorton, 1231
- Molecular biology of synaptic receptors, E. De Robertis, 963
- Molecular biology of the gene, J. D. WATSON, *book review* by G. M. Tomkins, 795
- Molecules and life, M. V. VOL'KENSHTEIN, *book review* by B. H. Zimm, 1139
- Moment, G. B. *See* Waldrop, H. A., *et al.*
- Mongan, T. R. *See* Golden, J.
- Monjan, A. A., *et al.*: Cerebellar hypoplasia in neonatal rats caused by lymphocytic choriomeningitis virus, 194
- Monster, J. *See* Perry, E. C., Jr., *et al.*
- Moog, F.: Male bias of NIH (*letter*), 236
- Moon rocks, H. S. F. COOPER, JR., *book review* by D. R. Wones, 560
- MOORE, P., The atlas of the universe, *book review* of, 888
- Morahan, P. S. *See* Grossberg, S. E.
- Morgan, W. D. *See* Dawe, C. J., *et al.*
- Morimoto, H. *See* Scragg, A. H., *et al.*
- Morphactin-induced parthenocarp in the cucumber, R. W. Robinson *et al.*, 1251
- Morton, E. S.: Nest predation affecting the breeding season of the clay-colored robin, a tropical song bird, 920
- Moscona, A. A.: Embryonic and neoplastic cell surfaces: availability of receptors for concanavalin A and wheat germ agglutinin, 905
- Mosser, J. L. *See* Wurster, C. F., *et al.*
- Moszkowski, S. A.: *book review* of Excitation mechanisms of the nucleus, 1140
- Mote, M. I., and T. H. Goldsmith: Compound eyes: localization of two color receptors in the same ommatidium, 1254
- Motulsky, A. G. *See* Murray, R. F., Jr.
- Moutsoulas, M. D. *See* Mihalov, J. D., *et al.*
- Mulcahy, D. L.: A correlation between gametophytic and sporophytic characteristics in *Zea mays* L., 1155
- Muller, C. H.: *book review* of Chemical ecology, 886
- Müller, D. G., *et al.*: Sex attractant in a brown alga: chemical structure, 815; *erratum*, 1132
- Munson, R. A. *See* Kamlet, K. S., *et al.*
- Murdoch, W. W.: *book review* of Animal populations in relation to their food resources, 469
- Murphy, J. L.: Maize from an Adena mound in Athens County, Ohio, 897
- Murray, A. W., *et al.*: Adenosine 3'5'-monophosphate phosphodiesterase in the growth medium of *Physarum polycephalum*, 496
- Murray, R. F., Jr., and A. G. Motulsky: Developmental variation in the isoenzymes of human liver and gastric alcohol dehydrogenase, 71
- My world line, G. GAMOW, *book review* by R. D. Richtmyer, 997
- Myers, M. *See* Gandelman, R., *et al.*
- Myrtle, J. F., and A. W. Norman: Vitamin D: a cholecalciferol metabolite highly active in promoting intestinal calcium transport, 79

N

- Naka, K.-I.: Receptive field mechanism in the vertebrate retina, 691
- NAPIER, J., The roots of mankind, *book review* of, 1230
- Narcotic tolerance and dependence: lack of relationship with serotonin turnover in the brain, D. L. Cheney *et al.*, 1169
- Nash, D. B. *See* Fanale, F. P.
- Nathanson, N. *See* Monjan, A. A., *et al.*
- Nedwich, A. *See* Fleischmajer, R., *et al.*
- Need for quality filters in information systems, The (*editorial*), A. Etzioni, 133
- Neiburger, M.: *book review* of The value of the weather, 57
- Nekhorocheff, J. *See* Scragg, A. H., *et al.*
- Nelson, B. (*News and Comment*): Hiroshima after 25 years, 556
- Nerve trophic function: in vitro assay of effects of nerve tissue on muscle cholinesterase activity, T. L. Lentz, 187
- Nest predation affecting the breeding season of the clay-colored robin, a tropical song bird, E. S. Morton, 920
- NETTESHEIM, P. *See* HANNA, M. G., JR., *et al.*
- Neural pathways associated with hypothalamically elicited attack behavior in cats, C. C. Chi and J. P. Flynn, 703
- News and Comment: AAAS convention, 47; American Council on Education rates graduate programs, 49; amphetamines for hyperkinetic children sanctioned, 1223; arid land agriculture, 989; Boston Hospital dispute, 358; cancer research proposals, 877; Carnegie plans telescope in Chile, 557; corporate responsibility, 463; federal R & D, 657; Federation of American Scientists battle ABM, scientists' apathy, 1224; fellowship panel protests cutbacks, 1127; fire ant control, 1131; Florida canal project halted, 357; Fort Detrick laboratory threatened with extinction, 262; graduate support, 554; Hanford reactors, 555; Harvard's new president, 264; health insurance, 783; herbicides in Vietnam, 43; higher education, 1129, 1219, 1225; Hiroshima after 25 years, 556; jobless scientists, 985; Lederberg opposes cancer authority, 1220; medical association sues California, 360; Michigan war research charged, 656; M.I.T. faculty to renounce military research, 156; Nader and the scientists, 549; National Medal of Science winners, 464; NAS-NAE panel kicks over traces, 781; NASA laboratory converted to R & D, 268; *New Scientist* absorbs *Science Journal*, 157; 1972 budget has modest increase for science, 459; Nixon environment package, 659; open university is born, 881; Pine Bluff saved, 462; Population Research Act, 1221; radiation law loses in Minnesota, 45; radiation standards, 780; rapid transit, 1125; research funds asked by Nixon, 784; science junk, 879; science policy, 874; sea-level canal, 355; space shuttle,

- 991; Stanford School of Medicine, 551, 654, 785; star bright, street light, 461; trans-Alaska pipeline, 1130; undergraduates at University of California at Santa Cruz, 153; U.S. losing nerve to experiment?, 875; University of California faculty asks new AEC contract, 159; water pollution, 266; Wiesner to presidency of M.I.T., 987
- Newton, W. T. *See* Jaffe, B. M., *et al.*
- Nicoll, R. A.: Recurrent excitation of secondary olfactory neurons: a possible mechanism for signal amplification, 824. *See also* Barker, J. L., *et al.*
- Nitecki, D. *See* Senyk, G., *et al.*
- Nitrogen, phosphorus, and eutrophication in the coastal marine environment, J. H. Ryther and W. M. Dunstan, 1008
- p-Nitrophenyl phosphate hydrolysis and calcium ion transport in fragmented sarcoplasmic reticulum, G. Inesi, 901
- Nobody ever dies of overpopulation (*editorial*), G. Hardin, 527
- Nonbenzenoid aromatics, J. P. SNYDER (Ed.), *book review* by A. G. Anderson, Jr., 1002
- Norman, A. W. *See* Myrtle, J. F.
- Norman, E. C., and R. B. Dawson, Jr.: Abridging medical education (*letters*), 846
- Northern plainsmen, J. W. BENNETT, *book review* by M. P. Leone, 884
- Noton, D., and L. Stark: Scenpaths in eye movements during pattern perception, 308
- Noyes, A. N. *See* Boyer, S. H., *et al.*
- NSF: influencing appropriations (*letter*), R. A. Rettig, 232
- Nuclear power and the public, H. FOREMAN (Ed.), *book review* by L. Loevinger, 790

O

- ODIAN, G., Principles of polymerization, *book review* of, 1140
- Ohnuki, Y. *See* Berns, M. W., *et al.*
- O'Keefe, J. A. *See* Urey, H. C.
- Olfactory bulb removal eliminates maternal behavior in the mouse, R. Gandelman *et al.*, 210
- Olin, C. H.: Clearer skies for astronomy (*letter*), 1200
- Oliver, A. P. *See* Siggins, G. R., *et al.*
- Opal precipitation by marine gastropods (Mollusca), H. A. Lowenstam, 487
- Operant conditioning of POP (*letter*), R. Claiborne, 751
- Ordering of V^{2+} , Mn^{2+} , and Fe^{3+} ions in zoisite, $Ca_2Al_2Si_2O_{12}(OH)$, S. Ghose and T. Tsang, 374
- Orgel, L. E. *See* Lohrmann, R.
- Origin of nitrogen (*letter*), L. C. Cole, 236
- Oscillator neurons in crustacean ganglia, M. Mendelson, 1170
- Ovarian development in *Drosophila melanogaster*, R. C. KING, *book review* by D. R. Parker, 368

P

- Pacific geomagnetic secular variation, R. R. Doell and A. Cox, 248
- PAGE, J. K., JR. *See* BALDWIN, M. F.
- Paleolimnology of late Quaternary deposits: Seibold site, North Dakota, A. M. Cvacara *et al.*, 172
- Paleomagnetic chronology of Pliocene-Early Pleistocene climates and the Plio-Pleistocene boundary in New Zealand, J. P. Kennett *et al.*, 276
- Paleotemperature variations across the Plio-Pleistocene boundary, C. Emiliani, 60
- Palmarino, R. *See* Bottini, E., *et al.*
- Paradox of enrichment: destabilization of exploitation ecosystems in ecological time, M. L. Rosenzweig, 385

- Parker, C. W. *See* Jaffe, B. M., *et al.*
- Parker, D. R.: *book review* of Ovarian development in *Drosophila melanogaster*, 368
- Parker, E. B. *See* Garvey, B. S., Jr., *et al.*
- Parker, J. W. *See* Dickinson, J. C., III
- Parks, L. H. *See* Bartoshuk, L. M., *et al.*
- Parnas, I., *et al.*: Synaptic transmission in the crayfish: increased release of transmitter substance by bacterial endotoxin, 1153
- Parry, H. B. *See* Bignami, A.
- Parsons, D. F.: Industry and academe: closer ties (*letter*), 846
- Parthenogenesis: does it occur spontaneously in mice?, W. K. Whitten, 406
- Participatory technology, J. D. Carroll, 647
- Particles, sources, and fields, J. SCHWINGER, *book review* by A. S. Wightman, 889
- Pasteur, G.: Evolution in France (*letter*), 751
- Pathogenesis of diabetes mellitus, E. CERASI and R. LUFT (Eds.), *book review* by G. F. Cahill, Jr., 1000
- Paul Ehrenfest, M. J. KLEIN, *book review* by J. L. Heilbron, 558
- Paul, M. I., *et al.*: Urinary adenosine 3',5'-monophosphate in the switch process from depression to mania, 300
- Pearson, R. G.: *book review* of The conservation of orbital symmetry, 272
- Pease, P. L. *See* De Valois, R. L.
- PELLETIER, S. W. (Ed.), Chemistry of the alkaloids, *book review* of, 1233
- Penicillin as an epileptogenic agent: effect on an isolated synapse, G. F. Ayala *et al.*, 915
- People who see flying saucers (*letters*), G. L. Cowgill *et al.*, 956
- Perinatal undernutrition: accumulation of catecholamines in rat brain, W. J. Shoemaker and R. J. Wurtman, 1017
- Periodical cicada: sound production and hearing, J. A. Simmons *et al.*, 212
- Perkins, D., Jr. *See* Drew, I. M., *et al.*
- Perlman, J. D. *See* Stites, D. P., *et al.*
- Permeation of dry seeds with chemicals: use of dichloromethane, H. Meyer and A. M. Mayer, 583
- Perry, E. C., Jr., *et al.*: Sulfur isotopes in Swaziland System barites and the evolution of the earth's atmosphere, 1015
- Perry, T. O.: Dormancy of trees in winter, 29
- Pesticide concentrations in seawater, D. B. Seba and E. F. Corcoran, 928
- Peters, F. N., and W. S. Lovell: Polemic in the political arena (*letters*), 629
- Pfeiffer, E. W.: Final word on defoliation effects (*letter*), 625
- Pharmacology of synapses, The, J. W. PHILLIS, *book review* by D. M. J. Quastel, 1139
- Phenylthioacetate as a stain for cholinesterase, W. D. McEnroe, 928
- PHILLIS, J. W.: The pharmacology of synapses, *book review* of, 1139
- Philosophical barriers to ecological ideals (*letters*), H. K. Schneider *et al.*, 1095
- Photoperiod evidence in the introduction of *Xanthium* (cocklebur) to Australia, C. McMillan, 1029
- Photosensitivity of the circadian rhythm and of visual receptors in carotenoid-depleted *Drosophila*, W. F. Zimmerman and T. H. Goldsmith, 1167
- Physiological aspects of crop yield, J. D. EASTIN *et al.* (Eds.), *book review* by H. G. Burström, 56
- Physiology of insect reproduction, The, F. ENGLEMAN, *book review* by R. H. Barth, Jr., 368
- Pinocytosis and membrane dilation uranyl-treated plant roots, H. Wheeler and P. Hanchey, 68
- Plant virology, R. E. F. MATTHEWS, *book review* by F. C. Bawden, 275

- Plasma waves in space and in the laboratory, J. O. THOMAS and B. J. LANDMARK (Eds.), *book review* by M. Raether, 563
- Platt, J. *See* Deutsch, K. W., *et al.*
- Plumb, H. H.: Degrees Celsius—never centigrade (*letter*), 628
- Polemic in the political arena (*letters*), F. N. Peters and W. S. Lovell, 629
- Political discussions at Gordon Conference (*letter*), J. Beckwith *et al.*, 752
- Pollack, J. D. *See* Somerson, N. L., *et al.*
- Pollution and privilege (*letter*), E. Landau, 625
- Polymer conformation and configuration, F. A. BOVEY, *book review* by M. Goodman, 273
- Polymer whiskers grown from methyl 2-cyanoacrylate vapor, R. I. Smith-Johannsen, 1246
- "Polywater" and sweat: similarities between the infrared spectra, D. L. Rousseau, 170
- "Polywater": evidence from electron spectroscopy for chemical analysis (ESCA) of a complex salt mixture, R. E. Davis *et al.*, 167
- Ponnamperuma, C. *See* Chang, S., *et al.*
- "Population control" through nuclear pollution, A. R. TAMPLIN and J. W. GOFMAN, *book review* by M. S. Fox and J. J. MacKenzie, 559
- Poritsky, S. *See* Rozin, P., *et al.*
- Portal blood factor as the humoral agent in liver regeneration, A. B. Fisher *et al.*, 575
- Possible etiology of schizophrenia: progressive damage to the noradrenergic reward system by 6-hydroxydopamine, L. Stein and C. D. Wise, 1032
- Possible fossil lunar magnetism inferred from satellite data, J. D. Mihalov *et al.*, 892
- Potassium-adenosine triphosphate complex: values of and uses for its formation constant, N. C. Melchior *et al.*, 1267
- Potassium-uranium systematics of Apollo 11 and Apollo 12 samples: implications for lunar material history, F. P. Fanale and D. B. Nash, 282
- Power, G. G. *See* Longo, L. D.
- Predicting college success of the educationally disadvantaged, J. C. Stanley, 640
- Prehistoric domestication of animals: effects of bone structure, I. M. Drew *et al.*, 280
- Preston, L. W. *See* Freund, J.
- Price, G. B., *et al.*: Age-associated changes in the DNA of mouse tissue, 917
- Price, P. B. *See* Barber, D. J., *et al.*
- Primitive earth synthesis of nicotinic acid derivatives, N. Friedmann *et al.*, 1026
- Principles of polymerization, G. ODIAN, *book review* by R. J. Schaffhauser, 1140
- Problems of the logic of scientific knowledge, P. V. TAVANEK (Ed.), *book review* by M. W. Wartofsky, 662
- Promising catalyst for auto exhaust, W. F. Libby, 499
- Prostaglandins (*meeting report*), G. G. Andersson and L. Speroff, 502
- Protein-metal ion binding site: determination with proton magnetic resonance spectroscopy, P. I. Rose, 573
- Psychologists' preprint plans (*letters*), C. S. Gersoni and K. B. Clark, 525
- Ptashne, M. *See* Beckwith, J., *et al.*
- Pulmonary compliance: alteration during infection, N. Somerson *et al.*, 66
- Punnett, T.: Environmental control of photosynthetic enhancement, 284
- Pylka, J. M. *See* Simmons, J. A., *et al.*

Q

- Quastel, D. M. J.: *book review* of The pharmacology of synapses, 1139

R

- Radiation and leukemia rates (*letter*), E. L. Saenger *et al.*, 1096
- Radinsky, L. *See* De Volpi, A., *et al.*
- Radioactive materials: problems under scrutiny (*letter*), S. A. Reynolds, 955
- Radioimmunoassay for prostaglandins, B. M. Jaffe *et al.*, 494
- RADOM, M., The social scientist in American industry, *book review of*, 794
- Raether, M.: *book review of* Plasma waves in space and in the laboratory, 563
- Ralls, K.: Mammalian scent marking, 443
- Ramaty, R., *et al.*: X-rays from Centaurus A and the far-infrared background radiation, 500
- R & D processing of domestic programs, The (*editorial*), A. Etzioni, 1203
- Randomization and social affairs: the 1970 draft lottery, S. E. Fienberg, 255
- Randomization and the draft lottery, J. R. Rosenblatt and J. J. Filliben, 306
- Raper, J. R. *See* Hoffman, R. M.
- Reading, J. F.: *book review of* Direct nuclear reaction theories, 273
- REBANE, K. K., Impurity spectra of solids, *book review of*, 1003
- Rebuttal (*letters*), A. De Volpi *et al.*, 1199
- Receptive field mechanism in the vertebrate retina, K.-I. Naka, 691
- Receptors: localization and specificity of binding of serotonin in the central nervous system, S. G. A. Alivisatos *et al.*, 809
- Rechnitz, G. A. *See* Melchior, N. C., *et al.*
- Recurrent excitation of secondary olfactory neurons: a possible mechanism for signal amplification, R. A. Nicoll, 824
- Redmond, G., and G. Cohen: Induction of liver acetaldehyde dehydrogenase: possible role in ethanol tolerance after exposure to barbiturates, 387
- REICH, C. A., The greening of America, *book review of*, 1136
- Reimer, T. *See* Perry, E. C., Jr., *et al.*
- Reinhold, R. *See* Parnas, I., *et al.*
- Release of nuclear DNA template restrictions by specific polyribonucleotides, D. G. Brown and D. S. Coffey, 176
- Renn, C. E.: *book review of* Advances in water pollution research, 469
- Repression of interferon action: induced dedifferentiation of embryonic cells, S. E. Grossberg and P. S. Morahan, 77
- Rescue plan for Indian monkeys (*letter*), G. Bermant and S. Chandrasekhar, 628
- Research Topics: accelerator at Batavia, 362; mercury in the environment, 788; mutagenicity of chemicals and drugs, 51; stellar old age, 994, 1133, 1228
- Rettig, R. A.: NSF: influencing appropriations (*letter*), 232
- Reynolds, S. A.: Radioactive materials: problems under scrutiny (*letter*), 955
- Ribosomal RNA synthesis and the multiple, atypical nucleoli in cleaving embryos, C. P. Emerson, Jr., and T. Humphreys, 898
- Richman, M. H.: *book review of* Field-ion microscopy, 1003
- Richtmyer, R. D.: *book review of* My world line, 997
- Rieser, L. M.: Governance of the Association (*editorial*), 755
- Rittenberg, S. C.: *book review of* The biochemistry of inorganic compounds of sulphur, 163
- Robertson, R. T. *See* Mayers, K. S., *et al.*
- Robinson, L. J.: Another eclipse in 1973 (*letter*), 751
- Robinson, M. J. *See* Kyser, D. S., *et al.*
- Robinson, R. W., *et al.*: Morphactin-induced parthenocarp in the cucumber, 1251
- Robinson, T. *book review of* Chemistry of the alkaloids, 1233
- ROCHESTER, C. H., Acidity functions, *book review of*, 1001
- Roelofs, W. L., and R. T. Cardé: Hydrocarbon sex pheromone in tiger moths (Arctiidae), 684
- Roizman, B., and P. G. Spear: Herpesvirus antigens on cell membranes detected by centrifugation of membrane-antibody complexes, 298
- Role of cyclic AMP in cell function, P. GREENGARD and E. COSTA (Eds.), *book review by* A. P. Somlyo, 1229
- ROLPH, P. M. *See* MCKEE, J. S. C.
- Roots of mankind, The, J. NAPIER, *book review by* J. Buettner-Janusch, 1230
- Rose, P. I.: Protein-metal ion binding site: determination with proton magnetic resonance spectroscopy, 573
- Rosenblatt, J. R., and J. J. Filliben: Randomization and the draft lottery, 306
- ROSENBLATT, J. S. *See* ARONSON, L. R., *et al.*
- ROSENTHAL, D., Genetic theory and abnormal behavior, *book review of*, 367
- Rosenzweig, M. L.: Paradox of enrichment: destabilization of exploitation ecosystems in ecological time, 385
- Ross, L. L.: *book review of* The innervation of the vertebrate heart, 1138
- Roth, S.: *book review of* Adhesion in biological systems, 274
- Rothenberg, M. *See* De Volpi, A., *et al.*
- Rousseau, D. L.: "Polywater" and sweat: similarities between the infrared spectra, 170. *See also* Davis, R. E., *et al.*
- ROY, A. B., and P. A. TRUDINGER, The biochemistry of inorganic compounds of sulphur, *book review of*, 163
- Roy, R., and T. H. Jukes: J.C.T.: environmental scapegoat (*letters*), 128
- Rozin, P., *et al.*: American children with reading problems can easily learn to read English represented by Chinese characters, 1264
- Rubel, E. W. *See* Mayers, K. S., *et al.*
- Rubinstein, L. *See* Weiner, R. I., *et al.*
- RUDWICK, M. J. S., Living and fossil brachiopods, *book review of*, 1233
- RUTTEN, M. G., The geology of Western Europe, *book review of*, 162
- Ryther, J. H., and W. M. Dunstan: Nitrogen, phosphorus, and eutrophication in the coastal marine environment, 1008

S

- Saenger, E. L., *et al.*: Radiation and leukemia rates (*letter*), 1096
- Sakai, R. K. *See* Baker, R. H., *et al.*
- Sammis, C. *See* Anderson, D. L., *et al.*
- Sanchez, R. A. *See* Friedmann, Nadav, *et al.*
- Sanders, C. J.: Sex pheromone specificity and taxonomy of budworm moths (*Choristoneura*), 911
- Sartori, F. *See* Merlino, S.
- SAVAGE, C. W., The measurement of sensation, *book review of*, 165
- Sawyer, C. H. *See* Weiner, R. I., *et al.*
- Sayler, D. F. *See* McCabe, E. R., *et al.*
- Scanning electron microscopic observations of surface structure of isolated human chromosomes, H. M. Golomb and G. F. Bahr, 1024
- Scanpaths in eye movements during pattern perception, D. Noton and L. Stark, 308
- Schaefer, E. W., Jr. *See* Boyer, S. H., *et al.*
- Schaffhauser, R. J.: *book review of* Principles of polymerization, 1140
- Schleidt, W. M.: *book review of* Social behaviour in birds and mammals, 668
- Schmiege, D. C. *See* Wurster, C. F., *et al.*
- Schneider, H. K., *et al.*: Philosophical barriers to ecological ideals (*letters*), 1095
- Schoenfeld, R. I.: Melatonin: effect on punished and nonpunished operant behavior of the pigeon, 1258

- SCHOONHOVEN, L. M. *See* DE WILDE, J.
- Schorderet, M. *See* McAfee, D. A., *et al.*
- SCHULTZ, J., Biochemistry of the phagocytic process, *book review of*, 561
- SCHWINGER, J., Particles, sources, and fields, *book review of*, 889
- Science education—process or content? (*editorial*), B. Glass, 851
- Science: endless horizons of golden age?, B. Glass, 23
- Science in the British colonies of America, R. P. STEARNS, *book review by* G. H. Daniels, 664
- "Science is too important to stay out of politics" (*letter*), L. D. Longo and G. G. Power, 334
- Science teachers: ignored in a crisis (*letter*), J. H. Woodburn, 127
- Scleroderma and the subcutaneous tissue, R. Fleischmajer *et al.*, 1019
- Scragg, A. H., *et al.*: Cell-free protein synthesizing system from yeast mitochondria, 908
- Sea urchin embryos are permeable to actinomycin, G. A. Greenhouse *et al.*, 686
- Searching image in carrion crows, H. CROZE, *book review by* P. H. Klopfer, 667
- Seba, D. B., and E. F. Corcoran: Pesticide concentrations in seawater, 928
- Sechzer, J. A., *et al.*: Developmental behaviors: delayed appearance in monkeys asphyxiated at birth, 1173
- Second international meeting on ferroelectricity, The, *book review by* P. A. Fleury, 564
- SEEGER, R. J. *See* COHEN, R. S.
- Sela, M. *See* Sulica, A., *et al.*
- Selective stimulation of allelic expression: effect of antibodies to allotypic markers on lymphoid cells, A. Frensdorff *et al.*, 391
- Seliskar, C. J., and L. Brand: Solvent dependence of the luminescence of N-arylamino-naphthalenesulfonates, 799
- Semmes, J.: *book review of* the bisected brain, 885
- Senghaas, D. *See* Deutsch, K. W., *et al.*
- Senyk, G., *et al.*: Immunogenicity of glucagon: determinants responsible for antibody binding and lymphocyte stimulation, 407
- Serotonin: two different inhibitory actions on snail neurons, H. M. Gerschenfeld, 1252
- Seth, P. K. *See* Alivisatos, S. G. A., *et al.*
- Sever, J. L. *See* Nahmias, A. J., *et al.*
- Sex attractant in a brown alga: chemical structure, D. G. Müller *et al.*, 815; *erratum*, 1132
- Sex pheromone of the almond moth and the Indian meal moth: *cis*-9, *trans*-12-tetradecadienyl acetate, Y. Kuwahara *et al.*, 801
- Sex pheromone specificity and taxonomy of budworm moths (*Choristoneura*), C. J. Sanders, 911
- Sex stimulant and attractant in the Indian meal moth and in the almond moth, U. E. Brady *et al.*, 802
- Shah, D. O., and R. M. Hamlin, Jr.: Structure of water in microemulsions: electrical, birefringence, and nuclear magnetic resonance studies, 483
- Shannon, S. *See* Robinson, R. W., *et al.*
- Shapiro, J.: Arsenic and phosphate: measured by various techniques (*letter*), 234
- Shapley, D. (*News and Comment*): Federation of American Scientists battle ABM, scientists' apathy, 1224; fire ant control, 1131; NASA laboratory converted to R & D, 268; science junk, 879
- Shay, C. T. *See* Cvancara, A. M., *et al.*
- Shepard, R. N., and J. Metzler: Mental rotation of three-dimensional objects, 701
- Sherf, A. F.: Expertise at land grant colleges (*letter*), 849

- Sherman, R. G., and H. L. Atwood: Synaptic facilitation: long-term neuromuscular facilitation in crustaceans, 1248
- Shields, J.: *book review* of Genetic theory and abnormal behavior, 367
- Shoemaker, W. J., and R. J. Wurtman: Perinatal undernutrition: accumulation of catecholamines in rat brain, 1017
- Short-term changes in neural activity and behavior, G. HORN and R. A. HINDE (Eds.), *book review* by E. V. Evarts, 667
- Siegfried, R.: *book review* of Mikhail Vasil'evich Lomonosov on the corpuscular theory, 1231
- Siggins, G. R., *et al.*: Cyclic adenosine monophosphate and norepinephrine: effects on transmembrane properties of cerebellar Purkinje cells, 192
- Signal detectability and medical decision-making, L. B. Lusted, 1217
- Signer, E. *See* Beckwith, J., *et al.*
- Silent hemoglobin alpha genes in apes: potential source of thalassemia, S. H. Boyer *et al.*, 182
- Silverman, P. H. *See* Cook, R. T., *et al.*
- Silverstein, R. M. *See* Brady, U. E., *et al.*
- SIMEONE, J. B. *See* SONDHEIMER, E.
- Simmons, J. A.: Echolocation in bats: signal processing of echoes for target range, 925
- Simmons, J. A., *et al.*: Periodical cicada: sound production and hearing, 212
- Simpson, G. G.: Fossil penguin from the late Cenozoic of South Africa, 1144
- Siqueland, E. R. *See* Eimas, P. D., *et al.*
- Skull from Spruce Swamp: case of cranial dysraphism, H. H. Gass, 1268
- Slack, W.: Computer-based interviewing system dealing with nonverbal behavior as well as keyboard responses, 84
- Sleep stage and personality characteristics of "natural" long and short sleepers, W. B. Webb and J. Friel, 587
- Slifkin, L. *See* Garvey, B. S., Jr., *et al.*
- Slusher, N. *See* McCabe, E. R., *et al.*
- SMITH, D. A. *See* BOWKETT, K. M.
- Smith, D. W. E., and A. L. McNamara: Specialization of rabbit reticulocyte transfer RNA content for hemoglobin synthesis, 577; *erratum*, 1040
- Smith, J. W. *See* Jaffe, B. M., *et al.*
- Smith, L. H., Jr. *See* Williams, H. E.
- Smith-Johannsen, R. I.: Polymer whiskers grown from methyl 2-cyanoacrylate, 1246
- Smolker, R. E. *See* Wurster, C. F., *et al.*
- SNYDER, J. P. (Ed.), Nonbenzenoid aromatics, *book review* of, 1002
- Social behaviour in birds and mammals, J. H. CROOK (Ed.), *book review* by W. M. Schleidt, 668
- Social character in a Mexican village, E. FROMM and M. MACCOBY, *book review* by R. A. LeVine, 271
- Social scientist in American industry, The, M. RADOM, *book review* by D. Wolfe, 794
- Sodium and potassium activities in normal and "sodium-rich" frog skeletal muscle, W. M. Armstrong and C. O. Lee, 413
- Solar-climate relationships in the post-Pleistocene, J. R. Bray, 1242
- Solar particle tracks in glass from the Surveyor 3 spacecraft, G. Crozaz and R. M. Walker, 1237
- Solifuction: a model experiment, A. Higashi and A. E. Corte, 480
- Solvent dependence of the luminescence of N-arylaminothalenesulfonates, C. J. Seliskar and L. Brand, 799
- Somerson, N. L., *et al.*: Pulmonary compliance: alteration during infection, 66
- Somlyo, A. P.: *book review* of Role of cyclic AMP in cell function, 1229. *See also* Friedmann, Naomi, *et al.*
- Somlyo, A. V. *See* Friedmann, Naomi, *et al.*
- SONDHEIMER, E., and J. B. SIMEONE (Eds.), Chemical ecology, *book review* of, 886
- Sonnett, C. P. *See* Mihalov, J. D., *et al.*
- Sotsky, R. *See* Rozin, P., *et al.*
- Sound from Apollo rockets in space, D. Cotten and W. L. Donn, 565
- Southern corn leaf blight epidemic, The, L. A. Tatum, 1113
- Southwick, T. P. (*News and Comment*): Harvard's new president, 264; M.I.T. faculty to renounce military research, 156
- Sowinski, R. *See* Levine, S.
- Spear, P. G. *See* Roizman, B.
- Specialization of rabbit reticulocyte transfer RNA content for hemoglobin synthesis, D. W. E. Smith and A. L. McNamara, 577; *erratum*, 1040
- Specific enzymic methylation of an arginine in the experimental allergic encephalomyelitis protein from human myelin, G. S. Baldwin and P. R. Carnegie, 579
- Speech perception in infants, P. D. Eimas *et al.*, 303
- Spencer, W. A. *See* Ayala, G. F., *et al.*
- Speroff, L. *See* Anderson, G. G.
- Spizman, M. *See* Murray, A. W., *et al.*
- Spooner, B. S. *See* Wessells, N. K., *et al.*
- Sprang, M. L. *See* Deal, W. J., *et al.*
- Stadtman, T. C.: Vitamin B₁₂, 859
- Stamm, D. *See* Aschoff, J., *et al.*
- Stanley, J. C.: Predicting college success of the educationally disadvantaged, 640
- Stark, L. *See* Noton, D.
- STEARNS, R. P., Science in the British colonies of America, *book review* of, 664
- Stein, L., and C. D. Wise: Possible etiology of schizophrenia: progressive damage to the noradrenergic reward system by 6-hydroxydopamine, 1032
- Stellar atmospheres, D. MIHALAS, *book review* by C. R. Cowley, 1142
- Stereoscopic depth aftereffect produced without monocular cues, C. Blakemore and B. Julesz, 286
- Stimulation in vitro with protein carrier of antibodies against a hapten, A. Sulica *et al.*, 1165
- Stites, D. P., *et al.*: Factor VIII detection by hemagglutination inhibition: hemophilia A and von Willebrand's disease, 196
- Stockdale, F. E.: DNA synthesis in differentiating skeletal muscle cells: initiation by ultraviolet light, 1145
- STOREY, S. H. *See* VAN ZEGGEREN, F.
- Strasser, A. *See* Garvey, B. S., Jr., *et al.*
- Strength of biological materials, H. YAMADA, *book review* by S. B. Lang, 57
- Stross, F. H.: Application of the physical sciences to archeology (*meeting report*), 831
- Structure of water in microemulsions: electrical, birefringence, and nuclear magnetic resonance studies, D. O. Shah and R. M. Hamlin, Jr., 483
- Sturge, M. D.: *book review* of Impurity spectra of solids, 1003
- Subunit structure of aldolase, E. G. Heidner *et al.*, 677
- Suedfeld, P. *See* Conrad, J. P., *et al.*
- Sulfur dioxide emissions from power plants: their effect on air quality, J. Golden and T. R. Mongan, 381
- Sulfur isotopes in Swaziland System barites and the evolution of the earth's atmosphere, E. C. Perry, Jr., *et al.*, 1015
- Sulica, A., *et al.*: Stimulation in vitro with protein carrier of antibodies against a hapten, 1165
- SULLIVAN, C. Y. *See* EASTIN, J. D., *et al.*
- Superior colliculus cell responses related to eye movements in awake monkeys, R. H. Wurtz and M. E. Goldberg, 82
- Supraoptic neurosecretory cells: adrenergic and cholinergic sensitivity, J. L. Barker *et al.*, 208
- Supraoptic neurosecretory cells: autonomic modulation, J. L. Barker *et al.*, 206
- SURKIN, M., and A. WOLFE, An end to political science, *book review* of, 883
- SUTCLIFFE, B. T. *See* MCWEENY, R.
- Sutin, N.: *book review* of Electron transfer reactions of complex ions in solution, 563
- Suzuki, K. *See* Suzuki, Y.
- Suzuki, Y., and K. Suzuki: Krabbe's globoid cell leukodystrophy: deficiency of galactocerebrosidase in serum, leukocytes, and fibroblasts, 73
- Swinzow, G. K. *See* Lahman, H. S., *et al.*
- Synaptic adjustment after deafferentation of the superior colliculus of the rat, R. D. Lund and J. S. Lund, 804
- Synaptic facilitation: long-term neuromuscular facilitation in crustaceans, R. G. Sherman and H. L. Atwood, 1248
- Synaptic transmission in the crayfish: increased release of transmitter substance by bacterial endotoxin, I. Parnas *et al.*, 1153
- Synergy of ethanol and a natural soporific—gamma hydroxybutyrate, E. R. McCabe *et al.*, 404
- Szuch, P. *See* Fisher, B., *et al.*

T

- Tagliamonte, A. *See* Gessa, G. L., *et al.*
- Tagliamonte, P. *See* Gessa, G. L., *et al.*
- Takahashi, K., *et al.*: Development of excitability in embryonic muscle cell membranes in certain tunicates, 415
- Takahashi, S. *See* Kuwahara, Y., *et al.*
- TALBOT, C. H., Medicine in medieval England, *book review* of, 55
- Taming technology, L. M. Branscomb, 972
- TAMPLIN, A. R., and J. W. GOFMAN, "Population control" through nuclear pollution, *book review* of, 559
- Tape, G. F.: Glenn T. Seaborg: president-elect 1971 (*AAAS*), 707
- Tapper, D. N. *See* Halpern, B. P.
- Tarrab, R. *See* Sulica, A., *et al.*
- Tartof, K. D.: Increasing the multiplicity of ribosomal RNA genes in *Drosophila melanogaster*, 294
- Taste of water in the cat: effects on sucrose preference, L. M. Bartoshuk *et al.*, 699
- Taste stimuli: quality coding time, B. P. Halpern and D. N. Tapper, 1256
- Tatum, L. A.: The southern corn leaf blight epidemic, 1113
- TAUBE, H., Electron transfer reactions of complex ions in solution, *book review* of, 563
- TAVANEC, P. V. (Ed.), Problems of the logic of scientific knowledge, *book review* of, 662
- Taylor, E.: *book review* of Advances in biophysics, 890
- Taylor, E. L. *See* Wessells, N. K., *et al.*
- Taylor, K. L.: *book review* of The earth in decay, 161
- TEBBLE, R. S., Magnetic domains, *book review* of, 1140
- Tektites from the earth, H. C. Urey and J. A. O'Keefe, 312
- Terriere, L. C., *et al.*: Induction of microsomal oxidase in F₁ hybrids of a high and a low oxidase housefly strain, 581
- Tessmer, C. F. *See* Drewinko, B., *et al.*
- Thiesenhusen, W. C.: Latin America's employment problem, 868
- Thoma, G. E. *See* Saenger, E. L., *et al.*
- Thomas, J. M. *See* Evans, E. L., *et al.*
- THOMAS, J. O., and B. J. LANDMARK (Eds.), Plasma waves in space and in the laboratory, *book review* of, 563
- Thomas, N. C. *See* Cronin, T. E.
- Thomas, R. *See* Beckwith, J., *et al.*
- Thompson, R. F. *See* Mayers, K. S., *et al.*
- Three body problem in nuclear and particle physics, J. S. C. MCKEE and P. M. ROLPH (Eds.), *book review* by E. Hadjimi-michael, 562

W

- Thurmon, T. F. See Boyer, S. H., *et al.*
Time scales for lithium depletion and rotational braking in solar-type main-sequence stars, E. P. J. van den Heuvel and P. S. Conti, 895
TOBACH, E. See ARONSON, L. R., *et al.*
Tomkins, G. M.: *book review* of Molecular biology of the gene, 795. See also Baxter, J. D., *et al.*
Tompkins, E. See Saenger, E. L., *et al.*
Too little gene exchange (*letters*), H. G. Wilkes and P. M. A. Bourke, 955
Tornheim, K. See Lowenstein, J.
Traité de zoologie, GRASSE, P.-P., *book review* by G. R. Zug, 164
Tronick, E. See Ball, W.
Trujillo, J. M. See Drewinko, B., *et al.*
Truman, J. W.: *book review* of Insect hormones, 794
Tsang, T. See Ghose, S.
Tumlinson, J. H., III. See Brady, U. E., *et al.*
Tumor detection by nuclear magnetic resonance, R. Damadian, 1151

U

- Udenfriend, S. See Dairman, W.
Ungar, F. See Alivisatos, S. G. A., *et al.*
Urea—inorganic phosphate mixtures as prebiotic phosphorylating agents, R. Lohrmann and L. E. Orgel, 490
Urey, H. C., and J. A. O'Keefe: Tektites from the earth, 312
Urinary adenosine 3',5'-monophosphate in the switch process from depression to mania, M. I. Paul *et al.*, 300
Uzmann, J. R. See Cooper, R. A.

V

- Value of the weather, The, W. J. MAUNDER, *book review* by M. Neuburger, 57
VAN BAVEL, C. H. M. See EASTIN, J. D., *et al.*
van den Heuvel, E. P. J., and P. S. Conti: Time scales for lithium depletion and rotational braking in solar-type main-sequence stars, 895
Van Olphen, H.: Amorphous clay materials (*meeting report*), 91
Van Valen, L.: The history and stability of atmospheric oxygen, 439
VAN ZEGGEREN, F., and S. H. STOREY, The computation of chemical equilibria, *book review* of, 163
Vella, P. See Kennett, J. P., *et al.*
Very heavy solar cosmic rays: energy spectrum and implications for lunar erosion, R. L. Fleischer *et al.*, 1240
Vigorito, J. See Eimas, P. D., *et al.*
Villa, V. See Scragg, A. H., *et al.*
Vine, A. C.: *book review* of In-water photography, 1001
Visual attention in the tree shrew: an ablation study of the striate and extrastriate visual cortex, H. Killackey and I. T. Diamond, 696
Visual patterned reflex present during hypothalamically elicited attack, R. Bandler, Jr., and J. P. Flynn, 817
Vitamin B₁₂, T. C. Stadtman, 859
Vitamin D: a cholecalciferol metabolite highly active in promoting intestinal calcium transport, J. F. Myrtle and A. W. Norman, 79
Volcanism and the upper mantle, G. S. GORSHKOV, *book review* by R. W. Decker, 1141
Volcanoes in the sea, G. A. MACDONALD and A. T. ABBOTT, *book review* by A. R. McBirney, 887
VOL'KENSHEIN, M. V., Molecules and life, *book review* of, 1139
von Békésy, G.: Auditory backward inhibition in concert halls, 529
Vought, R. L. See London, W. T.
Vrablik, G. R. See Boyer, S. H., *et al.*

- Waldrop, H. A., *et al.*: Grizzlies: to spare or banish (*letters*), 431
Walker, R. M. See Crozaz, G.
Walsh, J. (*News and Comment*): American Council on Education rates graduate programs, 49; Florida canal project halted, 357; higher education, 1219; 1972 budget has modest increase for science, 459; Stanford School of Medicine, 551, 654, 785; University of California faculty asks for new AEC contract, 159; Wiesner to presidency of M.I.T., 987
Walsh, W. M., Jr.: Magnetic resonances and waves in simple metals, 36
Walter Reed papers (*letter*), W. B. Bean, 19
Warren, D. I. See Cowgill, G. L., *et al.*
Wartofsky, M. W.: *book review* of Problems of the logic of scientific knowledge, 662
Waterhouse, B.: *book review* of Living and fossil brachiopods, 1233
Watkins, N. D. See Kennett, J. P., *et al.*
WATSON, A., Animal populations in relation to their food resources, *book review* of, 469
WATSON, J. D.: Molecular biology of the gene, *book review* of, 795
Weaver, W.: Manned space exploration (*letter*), 752
Webb, W. B., and J. Friel: Sleep stage and personality characteristics of "natural" long and short sleepers, 587
Weber, B. H. See Heidner, E. G., *et al.*
WEEKS, W. F. See GOW, A. J., *et al.*
Weigle, W. O. See Chiller, J. M., *et al.*
Weiner, R. I., *et al.*: Electrical activity of the hypothalamus: effects of intraventricular catecholamines, 411
Weinreb, S. M. See Dalezios, J., *et al.*
Weinstein, D. See Loughman, W. D., *et al.*
Weinstein, G. W., *et al.*: Extracellular recordings from human retinal ganglion cells, 1021
Weiss, H. S. See Somerson, N. L., *et al.*
Weiss, R. F., *et al.*: Altruism is rewarding, 1262
Weizmann, F.: Correlation statistics and the nature-nurture problem, 589
Wessells, N. K., *et al.*: Microfilaments in cellular and developmental processes, 135
Westberg, K., *et al.*: Carbon monoxide: its role in photochemical smog formation, 1013
Westing, A. H.: Bomb craters (*letter*), 959
Wever, E. G. See Simmons, J. A., *et al.*
Whang-Peng, J. See Dawe, C. J., *et al.*
What is a fair price for oil? (*editorial*), P. H. Abelson, 633
What substitute for cars? (*letters*), D. S. Kyser *et al.*, 335
Wheeler, H., and P. Hanchey: Pinocytosis and membrane dilation in uranyl-treated plant roots, 68
When information becomes knowledge (*letter*), R. L. Ebel, 130
Whipple, W., Jr. See Schneider, H. K., *et al.*
White, G. W.: *book review* of Advances in earth history, 1234
Whitnack, G. C., and H. H. Martens: Arsenic in potable desert groundwater: an analysis problem, 383
Whittaker, R. H., and P. P. Feeny: Allelochemicals: chemical interactions between species, 757
Whitten, M. J.: Insect control by genetic manipulation of natural populations, 682
Whitten, W. K.: Parthenogenesis: does it occur spontaneously in mice?, 406
WHITTOW, G. C., Comparative physiology of thermoregulation, *book review* of, 1232
WIGGLESWORTH, V. B., Insect hormones, *book review* of, 794
Wightman, A. S.: *book review* of Particles, sources, and fields, 889
Wilcoxon, H. C., *et al.*: Illness-induced aversions in rat and quail: relative salience of visual and gustatory cues, 826
Wilkes, H. G., and P. M. A. Bourke: Too little gene exchange (*letters*), 955
Williams, D. R. See Gamzu, E.
Williams, H. E., and L. H. Smith, Jr.: Hyperoxaluria in L-glyceric aciduria: possible pathogenic mechanism, 390
WILLINGHAM, W. W., Free-access higher education, *book review* of, 468
Wilson, D. G. See Kyser, D. S., *et al.*
Wilson, K. W. See Westberg, K., *et al.*
Wilson, W. E., *et al.*: DDT: participation in ultraviolet-detectable, charge-transfer complexation, 180
Windle, W. F. See Sechzer, J. A., *et al.*
"Winter College" format, The, J. Ziman, 352
Wirsén, C. O. See Jannasch, H. W., *et al.*
Wise, C. D. See Stein, L.
Wisser, H. See Aschoff, J., *et al.*
Wogan, G. N. See Dalezios, J., *et al.*
WOLFE, A. See SURKIN, M.
Wolfe, D.: *book review* of The social scientist in American industry, 794
Women in the field, P. GOLDE (Ed.), *book review* by N. O. Lurie, 1135
Women, please apply (*letter*), B. Magasanik, 631
Wones, D. R.: *book review* of The lunar rocks and Moon rocks, 560
Woodburn, J. H.: Science teachers: ignored in a crisis (*letter*), 127
WOODWARD, R. B., and R. HOFFMANN, The conservation of orbital symmetry, *book review* of, 272
Wrenn, J. T. See Wessells, N. K., *et al.*
Wurster, C. F., *et al.*: DDT proponents challenged (*letters*), 522
Wurtman, R. J. See Shoemaker, W. J.
Wurtz, R. H., and M. E. Goldberg: Superior colliculus cell responses related to eye movements in awake monkeys, 82

X

- Xenon hexafluoride: structural crystallography of tetrameric phases, R. D. Burbank and G. R. Jones, 485
X-rays from Centaurus A and the far-infrared background radiation, R. Ramaty *et al.*, 500

Y

- YAMADA, H., Strength of biological materials, *book review* of, 57
Yamada, K. M. See Wessells, N. K., *et al.*
Young, J. M. See Johnson, C. Y., *et al.*
Yu, S. J. See Terriere, L. C., *et al.*

Z

- Zarrow, M. X. See Gandelman, R., *et al.*
Zigman, S.: Eye lens color: formation and function, 807
Zikan, J. See Mestecky, J., *et al.*
Ziman, J.: The "Winter College" format, 352
Zimm, B. H.: *book review* of Molecules and life, 1139
Zimmerman, W. F., and T. H. Goldsmith: Photosensitivity of the circadian rhythm and of visual receptors in carotenoid-depleted *Drosophila*, 1167
Zoloth, S. R. See Dziuk, P., *et al.*
Zug, G. R.: *book review* of Biology of the reptilia and Traité de zoologie, 164
Zumberge, J. H.: *book review* of International Symposium on Antarctic Glaciological Exploration (ISAGE), 369