

# SCIENCE NEWS INDEX

Vol. 101, Nos. 1-26, Jan.-June 1972, pp. 1-416

SCIENCE SERVICE, WASHINGTON, D.C. 20036

## A

AAAS meeting	5, 6, 7, 21, 22, 23, 26
ACTH	15, 78
ACTH injections	334, 335
AEC	
Dual roles	38
Radiation standards	230
Radioactive wastes	342
AMA	295
Judiciary Council	392
ATP breakdown	376
Abdel-Monem, A.	10
Abelson, Philip G.	166, 203
Abell, George O.	22
Abiogenesis	366
Abortion reform	75, 150, 198
Abundances of elements	213
Abzug, Bella	230
Accelerators	
Alice	218
First 200-GeV	166
NAL and CERN II	222
PPA	279, 340
Proton beam	407
Superconducting	244, 245
Accretion temperature	233
Acetaldehyde (ACh)	219
Aconitine	247
Adams, John	250
Adler, Isidore	53, 292
Adrenogenital syndrome	8
Aeration, Artificial	186
Aerosol pollution	
Monitoring	283
Pesticides	345
Afar rifts	122
African nations	365
Aftershock mechanism	185
Aging	188
Agrill, S. O.	73
Aggressive behavior	
Assembly line	233
Crowded condition	43
Learned or inherited	43
Violence on TV	55, 214
Ahmed, Maqsood	330
State standards	372
Air pollutants	
Control of six	372
Air pollution	
Cancer factor	282
Computer model	377
NO <sub>2</sub> levels up	234
Region-wide	390, 394
Rural dust	330
Synergisms	151
Air pollution control	
Cost-benefit ratios	377
Air quality	
Control progresses	171
Forecasting	11
Air-water interface	31, 407
Airborne 3100-3400	27
Airline hijackings	108-110
Akesson, Norman B.	345
Alaska pipeline	184, 199, 325, 326
Albedo of Uranus	42
Alcock, A. J.	230
Alcohol addiction	135
Serotonin	233
Alcohol consumption	
Motivation	375
Alcohol metabolism	219
Alcoholics	
Genetics	170
Nausea induced	264
Characteristics	186
Alfvén, Hannes	72
Alfvén, Hannes	219
Algol	132
Alkali metal battery	151
Allan, G. G.	282
Allen, George	246
Allen, James	250, 251
Allende meteorite	231, 367
Alpha waves	
Boredom	331
Hyperkinesia	27
Altruism	152
Alum precipitation	122
Alveolar bone	216
Ambient air	377
Concept	286
Court decision	372
DDT	345
Six standards	372
Sulfuric acid	151
Amchitka issue	22
American Chemical Society	
Annual meeting	244
Professionalism	313, 314
American Geophysical Union	279
American Medical Association	295, 392
American Physical Society	278, 324
American Psychiatric Association	296
American Psychological Association	327, 394
Amino acid precursors	27
Amino acids	335, 366
Ammonia, Atmospheric	
Plants	171, 363
Amphetamines	
Consumption	7
Production cut	123
Therapy	27
Amyloid	
Senile plaque	188
Anders, Edward	38, 233
Anders, Eric	170
Anderson, Don	233
Anderson, Norman	393
Andes, Himalayas	154
Andrews, James E.	119
Androgen excess	8
Androsterone deficiency	123
Anemia, Hemolytic	45
Anesthetics	232
Angiotensin	14
Animal feeds	
Antibiotics in	348, 349
Animals, Warm-footed	171
Antabuse	251
Antennas, VLA	196
Antibiotics	
Animal feeds	348, 349
Antibodies	
Cancer antigen	298, 391
Antigen isolation	393
Antifertility serum	261
Antimatter	
Big-bang universe	103
Chemistry	343
None in cosmic rays	284
Antineutrinos	363, 377
Antioxidants	
BHT and vitamin E	45, 188
Antiquities	
Illegal markets	74
Apamin	248
Apes	
Learning skill	264, 299
Aphids, Repellent	91
Apollo CSM	356
Apollo 14	
ALSEP	328
Crater dates	73
Mare Imbrium	38
Zero gravity	329
Apollo 14 and 15	235, 292
Apollo 15	
Gamma field	346
Heat flow	53
Moon mantle	27
Apollo 16	
Anorthosites	328
Astronauts	236
Cayley formation	236, 260, 276
Central Highlands	276
Complicated rocks	311
Descartes	
Highlands	235, 236
Gamma fields	346
Instrument readings	292
On to highlands	260
Remanent magnetism	219
UV camera	247
Apollo 17	71, 120
Arabian Sea	362
Archaeological sites	74
Arctic animals	171
Arctic ice	58
Armbruster, P.	10
Armor, David J.	342
Arnold, James R.	53, 292
Aroclor 1254	345
Aronson, Nathan	281
Arrhythmia	247
Arsenic	249
Arstila, Antti	93
Arteriosclerosis	188
Asphalt, Porous	58
Aspirin	
Anticoagulants	8
Ovulation	123
Assassin's traits	343
Assembly line work	233
Asteroid belt	391
Astronauts	236, 260
Apollo 16	276, 292
Dismantling corps	374
Rock samples	120
Skylab crews	56
Astronomical photometer	301
Astronomy equipment	
1970's	358
Atkins, D. H. F.	151
Atmosphere	
Ammonia	171, 363
Conductivity	283
Haziness	132
Hydroxyl	329
Soil sink for CO	286
Atomic Energy Commission	38, 230, 342
Atomic nuclei, Heavy	218
Atomic power	
Subterrene	24
Atomium	379
Auroras	152
Australia antigen	248
Australopithecus	133
Auto crash suicides	394
Auto emission standards	325, 326
Estimating costs	199, 377
EPA, Volvo, Detroit	246
Auto emissions	
90% reduction	372
Auto traffic restriction	171, 253
Autobiles	
Banning	39
Electric	151
Autopsy, Immediate	92
Aveni, Anthony F.	126
Avruch, Joseph	376
Axel, Richard	56
Axelrod, David	169

## B

BHA and BHT	188, 264
Baarsden, E. L.	329
Babies	
Hepatitis	248
Low birth weight	74, 170
Methadone	170
Overfed	379
Smoking mothers	74
Baby teeth	
Sampling for lead	91
Bacteria, Dental	215
Bahcall, John N.	138, 223
Baird, G. A.	377
Baker, Carl G.	309
Baker, Paul T.	154
Baltimore, David	86
Bannister, Tommy C.	329
Barazangi, Muawia	10
Barbados	376
Barberi, F.	122
Bardsley, J. N.	343
Barghoorn, Elso S.	367
Barium carbonate	394
Barshay, Saul	284
Barth, Charles A.	106
Baryons and leptons	138
Barz, H. E.	167, 234
Baseball II magnet	28
Basic research	
15% of total R&D	265
Basten, Antony	345
Battered child syndrome	318
Bautz, Laura Pat	22
Beach erosion	396
Beasley, Joseph D.	198
Becker, Charles E.	251
Becker, Robert O.	184
Bedrock disposal	310
Beer, Reinhard	218
Beggs, James M.	333
Behavior peptides	334, 335
Behavior technology	182
Behrman, Harold R.	123
Bekenstein, Jacob D.	138
Bell, Tom	156
Benard convection	378
Bennett, G. Vann	345
Benzpyrene	282
Berendt, Raymond D.	186
Berman, Allan	123
Berry, Charles A.	378
Berthelsdorf, Richard F.	297
Berl, Walter	6
Beta Persei (Algol)	132
Bhagwanani, S. G.	138
Bhuvanawaran, Chidamdaram	91
Bicycling	90
Bieri, John G.	44
Binder, A. B.	42
Bird migration	245
Birds and crocodiles	393
Birge, Stanley J., Jr.	263
Birth control	
By vaccination	261
Birth defects	72
Birth rate decline	264
Birth weight, Low	74, 170
Births, Multiple	24
Bistline, R. G.	11
Björkland, Anders	219
Black, L. P.	101
Black holes	
Laws of physics	138
Rotating	150
Vibrating	10
Blackbody radiation	
218, 378	
Blakely, Richard J.	283
Blamont, Jacques	152
Bland, Richard	40, 86
Blatnik, John A.	333
Blood clotting	282, 331
Blue babies	155
Blumer, Max	326, 394
Body temperature	152
Boffey, Philip M.	56
Böhm, A.	138
Bohus, Bela	335
Bollinger, Lowell M.	244
Bonatti, Enrico	58
Bone healing	184
Booker, John R.	185
Borlaug, Norman E.	30
Borsky, Paul	6
Bott, M. H. P.	74
Boulding, Kenneth	23
Brady, Joseph L.	293
Braginsky, Vladimir	149
Brain	
Effects of alcohol	233
Electrical stimulation	263, 381, 394
Fluid manipulation	152
Hemispheres	205
Implant	175
MSH injections	78
Marijuana	394
Nerves	219
Prosthesis	86
Protein extracted	376
Septal region	318, 394
Serotonin levels	264
Brain disorders	
Delinquents	123
Brandt, H.	326
Branscomb, Lewis M.	85, 169
Brault, J. W.	249
Breast cancer	72
Breast feeding	379
Breeder reactor	55
Breger, Irving A.	231
Breggin, Peter R.	174, 182, 242
Bremer, Arthur H.	343
Bremstrahlung	382
Brett, Robin	347
Brewin, Nicholas	231
Brezhnev, Leonid I.	356
Briggs, Geoffrey	405
Brighton, Carl	184
Brown, Bertram S.	118, 197
Brown, Don L.	157
Brown, Rodger A.	153
Brown, Ron	373
Brown, William J.	11
Brueckner, Keith A.	388
Bryan, W. B.	283
Budget 1973	69, 70, 71
Buffington, A.	284
Buoy, 100-ton	407
Burbidge, Geoffrey R.	382
Burch, Dean	214
Burgess, Anthony	174
Burnett, D. S.	73
Burns, Robert E.	119
Burtyn, Peter	230

Bus lane	333
Buses, Piston-engine	90
Bushuyev, K. D.	357
Busing	182, 342
Butron, Roger V.	376
Byrn, Robert M.	75, 150

## C

CP 1133	293
Cabibbo, Nicola	138
Cain, Dan L.	405
Calcium ions	263
Calcium levels	362
Calcium malabsorption	406
Calendars	62
California	
Environmental Council	278
Prison system	174
Callen, Earl	278
Cameras	
Airborne snoop	27
ERTS	409
Skylab	409
Cameron, A. G. W.	233
Campbell, D. B.	102
Campbell, Robert	298
Canadian oil	326
Canary Islands	10
Cancer	
Air pollutants	282
Antibodies	298
Breast	72
DNA repair	298
Immunity	341, 393
Institute	309
Legislation	216
Lung	123
Reverse transcriptase	345
Steroid link	123
Cancer cells	
Fetal genes	393
Glycoproteins	393
Cancer virus	123, 391
Human milk	72
Immune response	298
Mouse & human	56, 391
RNA-induced	298
Research	118
Candy additive	91
Cannikin conclusions	74
Carbon monoxide	
Concentration	171
Gasoline engines	286
Soil sinks	287
Carbon dioxide frost	153
Carbon dioxide	
lasers	94, 329
Carbon isotope ratios	367
Carbon star	10
Carey, William D.	21
Carnegie Commission	389
Carpenter, Edna M.	293
Carpenter, Edward J.	205
Carr, David	11
Carr, Gerald	56
Carruthers, George R.	247
Case, Clifford	110
Catalytic mufflers	133
Cataracts	219
Cavaliere, A.	382
Cell membrane	
ATPase	376
Erosion	298
Glycoproteins	393
Network	281
Stabilization	45
Cells, Target	7
Cenozoic time scale	283
Centanni, R. J.	298
Centaurus	
X-3	42, 185, 249
Cerebral hemispheres	205
Chafetz, Morris E.	135
Chemical evolution	366
Chemists	
ACS professionalism	314
Licensing	314
Social involvement	244
Unemployment up	310
Cheng, Thomas C.	138
Cherry, William R.	237
Child abuse	318
Childhood obesity	379
Children	
Hyperactive	27
TV violence	55, 214
Chimpanzees	380
China, Mainland	23
Chinese scientists	148
Chlorpromazine	247, 311
Cholesterol levels	379
Chondrites	170
Chopra, C. S.	282
Chorus, Claudius A.	183
Chromosome puffing	7
Cities	
Automobiles	284
Pollution predictor	171
U.S.S.R.	358
Civilization, Early	124



Green, A. G.	218
Green, J.	45
Green, Maurice	391
Green, Richard	122
Green, T. R.	171
Greenwalt, David	378
Greenland	
Oldest rocks	101
Greven, Henk	334
Grewing, M.	153
Grice, George D.	30
Griffith, John D.	123
Grodzka, Philomena G.	329
Gross, Samuel	45
Gross National Product	23
Gross national welfare	330
Growth factor	
Hypothalamus	302
Growth problems	
African nations	365
Exponential	204
In finite systems	165
Grumbach, Melvin	302
Gudehus, Donald	22
Guide, J. A.	318
Gurr, Henry S.	363
Gursky, Herbert	76, 185, 297, 382
Gutwein, Emil E.	394
Gwinn, William D.	187
<b>H</b>	
HEAO	71, 77
Haagen-Smit, Aie Jan	151
Hagen, Lawrence	330
Hahn, Walter	183
Hall, Charles F.	167
Halley's comet	293
Haloperidol	251
Hancl, Rudolph	107
Handler, Philip	61, 279, 294, 332
Hanel, Rudolph	405
Hariow, Harry F.	43, 186, 381
Harman, Denham	188
Harrison, Lowell T.	166
Harnden, F. R., Jr.	185
Harris, Louis	39
Hart, George L., Jr.	325
Harvey, George R.	30
Haverland, William J.	366
Hawaiian cave insects	91
Hawkins, Rosemary	331
Hawley, Amos	40
Head, J. W.	233
Hearing damage	190
Heart-assist	167
Heart attacks	379
Heart disease	155
Heath, Robert G.	263, 318, 394
Hecht, Toby	298
Heintzman, H.	153
Helium-neon laser	85
Helium 3	249
Hellman, Joseph	309
Hemoglobin gene	86
Hendy, C. H.	10
Henning, Carl	28
Henriksen, R. N.	42
Henshaw, Robert E.	171
Henze, Robert	310
Hepatitis serum	263
Hepatitis transfer	248
Herbicides	
Controlled-release	282
Heroin maintenance	331
Heroin substitutes	241, 250
Herter,	
Christian A., Jr.	342, 365
Hexachlorophene	61
High altitudes	
Body changes	154, 155
Heart disease	155
Migrants	154
High-frequency measurement	85
Higher education	389
Highway Tax Fund	333
Hilderbrand, David	264
Hilleman, Maurice R.	118
Hinman, Norman D.	281
Hinners, Noel W.	236
Hirsch, Jules	379
Hjellming, R. M.	132
Hodges, Carroll Ann	236
Hodson, R. T.	170
Hofer, Myron A.	281
Hoffman, John H.	292
Hohenberg, C. M.	54
Holloman, Herbert	332
Homing pigeons	330
Homo, Lake Rudolf	133
Hord, Charles W.	405
Hormones	
Action on cells	7
Prenatal	8
Releasing factor	302
Tracing paths of	285
Horowitz,	
Tony Giordano	168
Hot-hole digger	23
Hottel, Hoyt C.	90
Housing	
Equal opportunity	40
Howard, Jack B.	90
Howard, John N.	255
Howard, William	196
Howardite	73
Howarth, Francis G.	91
Howell, F. Clark	126
Hubbard, Donald G.	108
Hubble constant	22
Huebner, Robert	309
Human Environment U.N. Conference	261, 342, 364, 365, 404
Human experimentation	327, 392
Human gene	
Partially synthesized	86
Human growth hormone	302
Human survival	204
Humphrey, Hubert H.	5, 6
Hurricane Ginger	38
Hutchinson,	
Gordon L.	171, 363
Hydrocarbons	394
Hydrogen-antihydrogen	343
Hydrogen atom	
"Universal clock"	135
Hydrogen laser	170
Hydroxyl concentration	329
Hydroxyl masers	187
Hydroxyl-methane CO	287
Hyperbaric chamber	188
Hyperkinesis	27
Hypertension	
Marijuana reduces	264
Hypothalamus	
Deficiencies	302
Pituitary hormone	78
<b>I</b>	
IFYGL	316
IMP (Injected Microwave-heated Plasma)	28
IMP satellite	219
IMP-T3 treatment	318
IUE satellite	378
IQ scores	11
IQ's, High	
Prenatal hormones	8
ISTA	183
Ice, Ancient	10
Ice Age artifacts	124
Ice ages	58
Illegitimacy decline	75
Imbert, C.	262
Imipramine (IMP)	318
Immigration	214
Immune responses	
Humoral and cell-mediated	298
RNA cancer virus	298
Immunity	
Cancer treatment	341
Glycoproteins	393
T and B cells	345
Thymus transplant	376
Immunosuppression	295
Index of Potential Suicide	233
Industrial pollution	203
Industrial wastes	230
Industry's R&D	265
Infant mental development	152
Infertility correction	24
Infrared scanning	
ERTS data	409
Ingalls, R. P.	102
Ingelfinger, Franz J.	60
Ingersoll, John E.	229
Ingersoll, Royal	286
Inman, Robert	286
Insulin, Response to	345
Intelligence	
Sex hormones	8
Intergalactic matter	234
Intergalactic space X-ray sources	382
Interstellar clouds	
Photochemistry of	42
Protostars form in	187
Interstellar cyanogen	218
Interstellar formal-dimine	373
Interstellar message	135
Interstellar molecules	42
Ioachim, Harry L.	262
Ioffe, A. F.	28
Iran, Zagros belt	122
Iridium	133
Irwin, James B.	374
Ishay, J.	393
Isolation, Effects of	
Chimpanzees	380, 381
Rat pups	281
Rhesus monkeys	311

**J**

Jaakkola, Toivo	42
Jacob, Martin A.	170
Jacobs, Eleanor	188
Jacobs, Leon	72
Jaffe, Jerome H.	229, 251
Jarvis, Calvin R.	378
Jauncey,	
David L.	153, 312, 343
Javate, Vartolome	170
Jet noise control	190
Jet noise levels	
Los Angeles	43
Jishuken, L.	362
Johnson, B. E.	138
Johnson, Donald E.	39
Johnson, Leonard	87
Johnson, Nicholas	214, 406
Johnson, Rady	254
Jobjaba wax	205
Jukes, Thomas H.	348
Julian, Bruce R.	173
Junker, B. R.	343
Jupiter	
H/D ratio	218
Intensity contours	300
Jupiter probe	167, 219
Jupiter satellites	233
Jupiter-Saturn fly-by	152
Juvenile delinquents	
Brain disorders	123

**K**

KREEP	13, 73
Kacian, D. L.	86
Kaganowich, Gar	110
Kagawa, H.	362
Kalahari desert	362
Kalbfeisch, George R.	104
Kane, Martin F.	215
Kapatos, Gregory	330
Kaplan, Selma	302
Kaas, Leon R.	175
Kastin, Abba	24, 78, 334
Kaula, W. M.	73
Kavanagh, Lawrence	24
Kayden, Herbert J.	49
Kehl, Frank	23
Kellogg, E. M.	185, 297, 382
Kemp, Gordon	348
Kennedy, Edward	175, 296
Kennedy Space Center	260
Kerr, Clark	389
Kerwin, Joseph P.	56
Keto, J. W.	104
Kettering, Charles	23
Kety, Seymour S.	175
Khan, H. R.	378
Kidney machine	282
Vitamin D	406
Kimball, Thomas	58
Kimmey, Jimmy	75
Kinard, William H.	391
Kislow, Cynthia J.	91
Kistiakowsky,	
George B.	244
Kline, Nathan S.	43
Klinefelter's syndrome	376
Kliore, Aryvdas	107, 152
Kneese, Allen	204
Knowles, C. Harry	94
Knowles, John	175
Kormanik, Richard A.	186
Kosygin, Aleksei N.	356
Kovach, Robert	277
Kreuz, Leo E.	331
Kristian, Jerome	249
Krokhin, Oleg N.	328
Krop, Robert	188
Kross, James W.	199
Krugman, Saul J.	263
Krypton 84 ions	218
Kumar, Santosh	205
Kvnevolden,	
Keith A.	231, 367

**L**

L-dopa	
Side effects	11
LDH-X isoenzyme	331
LH/RH injections	24, 261
LR Cen	249
LSD and psychotherapy	
L.S.D.A. compounds	318
LST	329
Lake Ontario	316
Lake Rudolph	133
Lake sediments	249
Lakes, Development	363
Lally, Richard F.	110
Landau, E. M.	393
Landau, Susan Eva	168
Lande, Saul	335
Landsberg, Hans H.	365

Langseth, Marcus G.	53
Larimer, John W.	170
Larson, Edwin E.	283
Larson, Harold P.	153
Lasers	
Carbon dioxide	329
Dyes	329
Explosive	104
Fusion	230, 328, 388
Helium-neon	85
High-power	230
Internal reflection	262
Safety standards	94
Vacuum ultraviolet	170
Latham, Gary	328
Lauter, Hans	7
Laul, J. C.	38, 233
Lava tubes	91
Lavine, Leroy S.	184
Lead	
Atmospheric	264
Baby teeth	91
Long-term memory	13
Lunar soil	12, 13
Urban air	133
Lead-isotope dating	102
Leakey, Louis S. B.	43
Leakey, Richard E.	133
Learning	
Apes	299
Cerebral hemispheres	205
Cortical evolution	364
Role of hormones	334, 335
LeBlanc, Beverly	78
Lee, Everett S.	395
Lee, T. D.	222
Leece, James	348
Legros, Jean Jacques	285
Lehman, I.	172
Leigh, Hoyle	281
Leopold, Kurt	230
Leptons	222
Lerum, Jerrold	331
Leukemia	
immunity	262, 298
Lewicke, Carol	171
Lewis, John S.	233
Lewontin, Richard	294
Li, Choh Hao	302
Lichtenberg, A. J.	171
Liebowitz, Marty	23
Life, Origin of	366, 367
Meteorites	231
Proteins	26
Life on earth	231
Lightning modification	26
Liller, William	249
Limits to Growth	193, 202, 203, 365, 390
Critique	202
Five areas	232
Linder, Clarence H.	344
Lindsey, John V.	75
Linfield, W. M.	11
Linn, Robert M.	397
Liquid helium	104
Lisk, Donald J.	205
List, R. J.	394
Lithium 6 nucleus	297
Lithium titanium sulfides	167
Liver cell membrane	281
Livermore's XXII	29
Livestock feeds	348, 349
Lloyd, June	379
Lobotomy resurgence	174
Locust	91
Loell, Jack	107, 405
Los Angeles noise	43
Losowsky, M. S.	44
Lousma, Jack R.	56
Loveland, Edward H.	246
Low, George M.	152, 220
Lowinger, Thomas	377
Lubin, Moshe	388
Lucy, J. A.	45
Lukasik, Stephen J.	255
Luna 16	12, 13
Luna 20	121
Rock samples	149, 235
Lunar notations	
30,000 B.C.	125
Lung adaptation	155
Lung cancer	123
Lunney, Glynn S.	357
Luria, Don	7
Lymph-cell RNA	341
Lymph filtration	295
Lynch, Robert	86
Lynden-Bell, Donald	150
Lyons, H. A.	376
Lysosomes	93

**Mc**

McAdam, W. B.	153
McCally, R. L.	219
McCarthy, D. W., Jr.	42
McCleave, J. D.	406
McClelland, David C.	375

McClory, Robert	182
McCracken, Paul W.	203
Macdonald, Donald S.	326
MacDonald, Gordon J. F.	254, 342, 358
McCord,	
Thomas B.	300, 301
McDonald, J. Ken	14, 15
McElroy, William D.	69, 71
McGhee, George C.	40
McGinnies, William G.	205
McKinney, William T., Jr.	186, 281, 311
McLay, Richard W.	249
McLeary, R.	329
McMahon, Francis H.	293
McNamara, Robert S.	390
McNeilly, A. S.	285

**M**

MIF role	78
Transplant rejection	331
MIT/Club of	
Rome study	165
MMPI, Computerized	264
MSH injections	78, 334
Madagascar, Pre-drift	218
Maffei objects	301
Magma convection	
plumes	87
Magnesium-cadmium alloy	133
Magnetic bubbles	42
Magnetic fields	
Bird navigation	245
Earth's 74, 152, 283, 378	
Lunar 54, 277, 346, 347	
Solar	219
Magnetic mirrors	28
Magnetic polarity	283
Magnetic reversal	74
Magnetic storms	152
Magnetism, Lunar	219
Three theories	346, 347
Magnetosphere	152
Magruder,	
William M.	5, 21, 70
Majski, James A.	295
Makhijani, A. B.	171
Male impotence	205
Malpractice	232
Man, Early	126
Mandell, Gerald	138
Manheimer,	
Bernard N.	6
Mann, A. K.	222
Mann, Dean	393
Mannitol	93
Mansholt, Sicco S.	330
March, Robert	278
Marezio, M.	167, 234
Margolis, Frank L.	376
Marijuana	
Deemphasis	197
Deep EEG's	394
Hypertension	264
Legal status	72
National survey	72
Reports on	117, 118
Therapeutic uses	117
Marine ecosystems	122
Marine organisms	30
Mariner 7	153
Mariner 9	24, 54, 97, 106, 107, 134, 150, 405
Mariner fly-by	
Jupiter/Saturn	152
Venus/Mercury	71
Mars	
Atmosphere	54, 405
Dry ice	153
Dynamic volcanic	106
Gravity field	107
LST resolution	329
Life detection	134
Ozone detected	405
Striations	107
Water	107, 405
Mars landers	344
Mars surface	
Four regions	405
Mapping canyon	150
Nix Olympica	54
Rilles & canyons	54
Temperature	405
Volcanoes	405
Wind pattern	405
Wrinkled terrain	24
Marshack,	
Alexander	124-126
Masculine identity	376
Mason, Robert	232
Mass, Density of	141
Mass transit	
The Accessible City	284
Air quality	372
Costs	332
Massaro, Edward J.	249
Masursky, Harold	54, 106, 235, 277, 405
Matilsky, T. A.	297

Matter and antimatter	103	Thermal history	53	National goals	21	Organic pollution	43	Plant cover	234
Matthias, B. T.	167, 234	Topographic profile	292	National parks	248	Organophosphates	404	Plant roots	26
Mattingly, Thomas Ken	236, 247, 260	Uranium 236	73	National Research Council	294	Orion LM	260, 276	Plants	
Mayer, Jean	5, 21	Volcanism	54, 233	Reorganization	294	Osgood, R. M.	85	Decontaminate	171
Mayer, Maria Goepfert	135	Water vapor	73	National Science Foundation	296	Osheroff, D. D.	249	Enzyme inhibitor	171
Mazer, A.	262	Moon crust	27	Authorizations	296	Quabain	263	Toxic wastes	205
Mead, Margaret	23	Plutonium 244	54	Research and development	71, 197	Ovulation suppression	123	Plasma stability	28
Meadow, Dennis L.	101, 165, 202, 203	Seismically layered	27	Naugle, John E.	152	Owen, Wilfred	284	Plastics in the sea	205
Meandering model	378	Terrae, Original	277	Nausea induced	264	Oxidation		Plastics waste	377
Measurement standards	85	Moon landing sites	120	Navigation, Avian	245	Smog-caused	151	Plate tectonics	
Meat production		Moon model	246	Nebert, D. W.	232	Oxygen hunger	154	Continental margins	74
Antibiotics	348, 349	Moon rock dating	12-14	Needleman, Herbert L.	91	Oxygen treatment	188	North America	283
Medical ethics		Moon rocks		Nelson, Thomas S.	232	Oxytocin	285	Tonga arc	10
AMA guidelines	392	Apollo 14	27	Neodymium-glass laser	388			V-shaped ridges	87
Medical research		Apollo 16	311	Neon				Pleistocene hominids	133
U.S./U.S.S.R. joint	357	Central Highlands	276	Nerve growth factor (NGF)	219			Plutonium	
Meecham, William C.	43, 190	Dates	12-14, 120	Neurophysine	285			Breeder reactor safety	56
Meinel, Aden Baker	238	Descartes	236, 292	Neuroscience	175			Plutonium 244	54
Meinel, Marjorie Pettit	238	Green glass	73	Neutrino				Pogue, William	56
Melanin	138	Luna 20	149	Antineutrino	262			Pokorny, Alex D.	394
Memory		Hot vapor crystals	53	Massive	284			Polak, Fred L.	183
Pituitary peptides	334, 335	Magnetism	53, 54	Solar	297			Polar wobble	215
Retained in old	188	Remanent magnetism	219, 346	Spectroscopy	222, 223			Police role conflict	74
Mental development	152	Uranium-lead ages	54	Stability questioned	138			Polio virus	298
Mental illnesses	318	Moon surface		Neutron				Pollutants, Worldwide	203
Mercury levels		Cayley formation	236, 260, 276	Measure lifetime	377			Pollution abatement	
26, 186, 249, 390		D-shaped structure	53, 54	Neutron star				Costs and benefits	183
Mergner, Wolfgang	92, 93	Descartes formations	235, 260, 276, 292, 311, 328	Centaurus XR-3	40, 42			Technology	122, 252
Merrill, Edward W.	282	Elements mapped	53	Ions from	363			Pollution control	
Meson factory	407	Laser altimeter	292	Newell, Homer E.	279			Clean-up costs	58
Metcalf, Lee	119, 157	Mare Imbrium	38	Niall, Hugh D.	302			Technology alone	252
Metcalf, Robert L.	282	Oceanus Procellarum	235, 282, 292	Nickle, William R.	363			Utilities' R&D	284
Meteorite on moon	328	Planetesimals	38, 282	Niki, Hiromi	287			Pollution predictor	171
Meteorites	231, 366	Radioactive decay	11	Nile Blue	254			Polynucleotide enzymes	231
Methadone		Radioactivity	292	Niobium waveguide coil	244			Pomerantz, M. A.	377
Addicted babies	170	Radon activity	293	Nitrogen dioxide (NO <sub>2</sub> )	234			Ponnampuruma, Cyril	366
Maintenance	250, 251	Morgan, J. W.	38, 233	Nitrogen oxides				Population, U.S.	214, 215
Reclassification	229	Morgan, W. J.	87	Emission standards	199, 252, 372			Population control	
Methane	42	Morgan, W. W.	22	Nixon, Alan C.	310, 313, 314			Fear genocide	181
Methylmercury chloride	249	Morner, N.-A.	74	Nixon, Richard M.				Male impotence	205
Metrication bill	182	Morris, M.	10	Cancer effort	309			Public opinion	186
Meyer, John R.	181	Morton, Rogers C. B.	121, 184, 325, 342, 365	Environmental	121			Stockholm conference	404
Meyers, Robert D.	233	Mosquito control	363	Great Lakes	317			Population density	245
Microexplosion		Moss, Frank	39	Moscow visit	356			Population Education Act	198
reactions	328	Mosteller, Frederick	182	Peking visit	148			Population Growth, Commission on	214
Microfossil, Oldest	367	Mota, A. C.	133	R&D message	197, 314			Population policy	
Microturbulence	213	Mottman, John	22	Space shuttle	36			Quality or quantity	180
Microwaves	238	Mottur, Ellis	175	State of the Union	70			Rockefeller report	198
Mid-Atlantic Ridge	58	Motz, Lloyd	312	Abatement problems	189			TV program	232
Migration		Mouse cancer	56	Behavioral effects	7			Post, R. F.	28
Rural-to-urban	395	Movius, Hallam L., Jr.	126	Computer equipment	186			Pot smoking	72
Migratory fish	406	Moxley, John	60	Decibel charts	189, 190			Potassium metal	104
Military-industrial complex	244	Moynihan, Daniel P. 6.	182	Hazardous levels	43			Power, not anxiety	375
Milk, PCB's in	345	Mucus discharge	91	Pollution 6, 177, 189-191				Power plant sites	373
Milk virus, Cancer	72	Muehlberger, William R.	236, 276	Norman, Anthony	406			Prakash, Anand	152
Mill, John Stuart	100, 202	Muller, Charlotte	7	North Atlantic	283, 404			Pratt, Harold L.	218
Miller, G. E.	186	Muller, R. A.	293	North Carolina coast	397			Pratt, John H.	372
Miller, G. L.	149	Municipal systems	230	North Central Power	156			Precambrian Craton	101
Miller, M. E.	132	Murchison meteorite	231, 366	Northern Ireland	376			North America	283
Miller, Stanley	366, 367	Murphy, V. R.	347	Nuckolls, John	328, 388			Pregnancy serum	331
Miller, Stanton	171	Muscle changes	318	Nuclear heartbeat	166			Pregnant women	72
Millington, R. J.	171	Muskie, Edmund	43, 199, 203, 230, 252, 325, 359, 372	Nuclear industry				Prenatal hormones	8
Milton, Daniel J.	218, 236	Mutschler, Felix E.	283	Enriched uranium	229			Presidential assassins	343
Miner, Ellis D.	405	Myers, Robert D.	152	Nuclear power				Press, William H.	10
Minton, Allen P.	37			Edison/TVA	55			Price of Power, The	284
Mirror reactors	29			Environmentalists	38			Priestley Medal	244
Mirsky, Arthur	334			Nuclear power plant				Primack, Joel R.	5
Misner, C. W.	150, 284, 363			Thermal effects	249			Primate research centers	380, 381
Mitchell, Edgar D.	374			Nuclear test Cannikin	74			Prince William Sound	325, 326
Mitochondria	93			Nuclear waste storage	310, 342			Priori, Elizabeth	118
Moan, Charles E.	263			Nuclei, Toroidal	297			Prisoners	
Moke, Richard A.	293			Nucleon-photon ratio	103, 228			Brain surgery	174
Mokler, P. H.	10			Nur, Amos	185			Progesterin, Prenatal	8
Molecular astronomy	42, 187			Nursing home fires	39, 86			Prognasyl	11
Molecules, Metastable	104							Project Stormfury	38
Molloy, Martin W.	409							Promazine	247
Molybdenum compounds	234							Proprietary Association	60
Mondale, Walter F.	36							Prostaglandins	
Money, John W.	8, 78							Aspirin	123
Monkeys, Despairing	186							Periodontal disease	215
Monroe, Samuel R.	375							Proteinoids	26
Montana-Wyoming plan	156							Proteins	
Moon								Recycling of used	14
Age-dating methods	12, 13							Proteolytic enzymes	14, 15
Amino acid precursors on	27							Proton beam	407
Asymmetrical	73							Proton-scattering	166
Core	347							Protostars, Collapsing	187
Dating craters	73							Psoriasis	281
Far side	73, 282							Psychedelic therapy	318
Gamma fields	346							Psychiatrists	
Geothite	73							Certification	296
Magnetic field	54, 277, 292							Psychological testing	264
Magnetism theories	346, 347							Psychologists	
Mantle and crust	27							Ethics code	327
Meteorite impact	328							SEPA	246
Neptunium 237	73							Psychotherapy	
Origin of	367							174, 175, 182	
Periodic seismicity	293							Psychotic behavior	318
Seismic signals	328							Ptashne, Mark	359
Terrae	235, 277, 292							Puckett, Allen E.	408
								Puget Sound	326
								Pulsars	
								Atmospheres	363
								Cosmic rays	297
								Gravity waves	213, 293



## Q

Quality of Life	23, 278
UN Declaration	404
Quarks	
Not confirmed	138
Quasars	
Changes in	343
Gas cloud collision	234
3C 273	77, 343
3C 279	185, 343
Questran	379
Quinn, James Brian	21

## R

R factor	348
R&D funding	
1973 budget	69, 70
Percentage of GNP	
States & local	375
R&D national policy	261
RNA	
Degradation	281
Immune transfer	341
Protein	362
Viroid	102
Viruses	
Human tumor	118, 391
Immune responses	298
Mouse & human	118
Racial mixing	40
Radiation	
Incidence registry	94
State standards	230
Therapy	298
Radio astronomy	196
Radio mirrors	358
Radio sources, Double	234
Radio stars, Binary	132
Radioactive wastes	
Bedrock disposal	310
Surface storage	342
Radioimmunoassay	285
Radon activity	293
Rainnie, William	59
Rainsector experiment	38
Raiti, Salvatore	302
Ramsey, Paul	392
Randall, William	39
Rao, L. G. S.	123
Raphael, Bertram	27
Rapoport, Henry	90
Rapp, Fred	123
Rauch, Thomas M.	251
Rauscher, Frank J., Jr.	309, 358
Raye-Page	199
Real estate lakes	363
Red Sea	362
Red tide toxin	90
Redmond, Geoffrey P.	219
Redshift effect	249
Redshifts, Anomalous	
42, 373	
Reefs, Man-made	59, 218
Rees, Martin	150
Reeves, C. V.	362
Regestein, Quentin R.	331
Reinisch, Ronald	234
Remanent magnetism	
219, 346	
Remar, Elizabeth Mary	318
Remote sensing	
Earth resources	88, 408-410
US/USSR joint	329
Remote-viewing TV	27
Renner, Roy	90
Repressor isolation	359
Reptiles, Endangered	234
Research & Development	
Budget	69, 70, 71
National policy	261
States & local	375
Who does it?	257, 265
Research ethics	327
Resources	
Nonrenewable	202
Respiratory syndrome	138
Reuss, Henry S.	230
Revelle, Roger	364
Reverse transcriptase	
Cancer	345
Embryo cells	362
Rhesus monkeys	381
Rhoads, Jonathan	309
Rhodamine 6G	329
Rhythm method	91
Ribosomes	362
Rice, Alan	378
Rice, Richard A.	90
Richardson, Elliot L.	166, 204, 232, 389
Richardson, M. C.	230
Rickert, David	363
Ridd, M. F.	58
Ridker, Ronald	204

Rifting	
Gondwanaland	185
Kalahari Desert	362
Ripple, Fannie E.	279
River channel model	378
Robert, Marjorie S.	345
Roberts, A. P.	373
Robinson, C. P.	104
Rockefeller, John D. III	181
Rockefeller	
Laurance S.	342
Rogers, Carl M.	299, 381
Rogers, Paul G.	72, 250
Rogers, William	184
Rommel, S. A., Jr.	406
The Roots of Civilization	124-126
Rose, Robert H.	281
Rose, Robert M.	331
Rosemond, Hortensia	298
Rosenfeld, Andrée	125
Ross, Jeffrey	86
Rossio, Jeffrey L.	341
Rouse, Irving	126
Rowe, Wallace P.	118
Rowley, John	23
Rubber	364
Rubber reef	218
Rubidium-strontium	
dating	12, 13
Godthaab rocks	101, 102
Ruckelshaus, William D.	88, 133, 317, 325, 332, 342, 372, 404
Rudiman, W. F.	283
Ruffini, Remo	363
Rumbaugh, Calvin	123
Rumbaugh, Duane M.	264, 381
Rummonds, James S.	181
Runcorn, S. Keith	54, 347
Rural air pollution	330
Rural families	27
Rural-to-urban	
Migration	395
Ryan, C. A.	171

## S

SCEP	390
SO <sub>2</sub> -smog synergism	151
Sackett, James	125
Sadeh, Dror	213, 293
Sagan, Carl	135, 167, 312
Salvman, Linda	135
Salyut space station	356
Sanders, F. Kingsley	118
Sanders, Robert H.	377
Sandman, Curt	78
Santos-Martinez, Jesus	247
Sargasso Sea	205
Satellite communica-	
tions, Domestic	406
Satellites, Circling	408
Satoh, Tsugio	298
Saturn	
Temperature	153, 312
Savage, Charles	318
Savannah River Plant	310
Saxitoxin molecule	90
Saz, Arthur K.	349
Scarr-Salapatek, Sandra	11
Schally, Andrew	24, 78, 261, 302
Scheetz, Maurice E., Jr.	341
Schiegl, W. E.	122
Schistosomiasis	138
Schizophrenia	
Klinefelter's syndrome	376
Socioeconomic status	132
Tryptophan repressor	359
Schlesinger, James R.	38, 55, 342
Schmidt, Benno C.	309
Schmidt, P. H.	104, 167
Schopf, J. William	231, 367
Schreier, E.	185
Schuckit, Marc A.	170
Schumm, S. A.	378
Schwartz, Brian	103
Schwartz, Klaus	26
Sciama, Dennis	150
Science and society	5, 6
Science and technology	197
Science budget	69, 70, 71, 264
Science education	296
Science News anniversary	164
Science policy	21, 261
Science Talent Search winners	89, 168
Science U.S./U.S.S.R.	356
Scientific advisors	103
Scientific Manpower Act	314

Scientists	
Public statements	21, 22
U.S.-Chinese exchange	148
Scott, Robert E.	393
Sea-floor spreading	
Equatorial Atlantic	58
Periodic	378
Quiet zone	378
Red Sea	362
Reykjanes ridge	87
Solomon Sea	283
Sea slugs	122
Seamounts	153
Seashore shifts	396
Seattle-Tacoma area	153
Seaweed study	59
Sediment dating	119
Sedimentation, Heavy	185
Seismic risk maps	153
Seismic waves	
Earth's inner core	172
LASA	173
Senility	188
Oxygen treatment	188
Serotonin	
p-CPA	233
Sewage	
Aerated lagoons	186
Fertilizer	205
Florida reef	185
Industrial wastes	230
Sex hormone levels	8
Sex-role identity	376
Seyfert galaxy 3C 120	343
Shafer, Raymond P.	72, 197
Shaffer, D. B.	343
Shapiro, Irving M.	91
Shapiro, Irwin I.	102, 152
Sharbaugh, Robert J.	295
Shetty, Taranath	27
Shieh, L. J.	11
Shklovsky, I. S.	249
Shock research	92
Siebeling, R. J.	331
Silica, Fused	104
Silver, Leon T.	12-14, 54
Silvert, William	278
Simmons, Ozzie C.	375
Singer, Jerome E.	7
"Sisyphus"	391
Sjogren, William L.	73, 292
Skin pigmentation	78
Skinner, B. J.	73
Skylab	
Interviewed	108-110
Security measures	109
Cameras	56, 71, 88, 409
Slater, D. W.	362
Slater, Isabel	362
Slayton, Donald Kent	184, 374
Smith, Bradford	54, 106
Smith, James D.	394
Smith, K. L., Jr.	205
Smith, L. H.	284
Smith, R. Bob III	233
Smog, Sulfuric acid	151
Smoking	
Behavioral traits	170
Small babies	74
Thrombosis	331
Snail fever	138
Snider, J. L.	249
Soap plus i.s.d.a.	11
Soberman, Robert K.	391
Sodium transport	263
Soil chemicals	26
Soil microorganisms	286
Sokoloff, D. R.	85
Solar conversion	237, 238
Solar energy farms	237, 284
Solar neutrinos	297
Solar system, Inner	233
Solar wind	54, 152
Solecki, Ralph	126
Solid-fuel rockets	198
Solid helium	249
Solid wastes	377
Solinger, Al	382
Solomon Sea	283
Sonett, Charles P.	346, 367
South African rock	366
Southeast Asia	58, 365
Southeastern psychology	246
Sowerbutts, W. T. C.	185
Soyuz docking module	356
Space	
Payload savings	221
Waste conversion	378
Space docking	
U.S./U.S.S.R. joint	184, 356
Space propulsion	328
Space shuttle	36, 220
Authorization	328
Kennedy & Vandenberg	260
Solid fuel rockets	198
Space solar arrays	237
Space telescope	239
Spacecraft Pioneer F	135

Specific heat measurements	104
Spector, Sidney	251
Speed-of-light	85
Sperber, Michael A.	376
Sperm banks	135
Spiegelman, Sol	56, 72, 86, 391
Spielberger, Charles D.	246
Spilhaus, A. F., Jr.	279
Sreevalsan, T.	298
Stans, Maurice	333
Star cluster	
47 Tucanae	300
Starfish	43
Stars 62, 142, 204, 266, 350	
Abundances of elements	213
Formation of	187
Cosmic rays	153
Photographed electronically	300
State governments	372
Air quality	374
Technology	374
Steam buses	90
Steele, Russell W.	376
Steinbacher, Robert H.	405
Steinfeld, Jesse L.	55, 88, 214, 232
Steinkruger, F. J.	186
Stenevi, Ulf	219
Stepoe, Patrick C.	295
Stern, Sam	123
Steroid abnormalities	123
Stetler, Joseph	61
Stettler, A.	73
Steven, D. M.	393
Stever, H. Guyford	71, 216
Stewart, John H.	362
Stewart, Sarah E.	118
Stief, L. J.	42
Stockholm conference	261, 342, 358, 359, 364, 365, 390, 404
Stokes, John	264
Stomach ulcers	232
Stone, Robert	219
Stong, C. L.	95
Stork, Eric	133
Storminess	10
Strangway, David W.	346
Stress	331
Strong, Maurice F.	261, 342, 359, 364, 390, 404
Student aid	389
Subterranean	23
Suicides	
Automobile crash	394
Computerized index	233
Decrease in	376
Sulfur oxides	
Montana coal	158
Pollution model	11
Sulfuric acid	151
Sullivan, Roger	89
Summers, D. F.	298
Sunburn, Melanin	138
Sun's magnetic field	219
Suomi, Stephen J.	186, 311
Superconductivity	
Accelerator	244
High-temperature	234
Lithium titanium	167
Predicting metal's	133
Superheavy elements	
In meteorites	170
X-ray detection of	10
Survival, Blueprint for	100, 101
Suyehiro, Yasuo	43
Sweet, William H.	175
Symington, James	296
Synchrotron emission	
X-rays	297, 382
Systems dynamics	165, 202

## T

T and B cells	345
TAOS, Cost analysis	221
TEA lasers	230
THC	
Lower blood pressure	264
Reverse-tolerance	117
TV and violence	55, 214
Tabachnik, Nina Felice	168
Tachyons	104
Takin, Manoochehr	122
Tanenbaum, Harvey D.	185, 297, 382
Tanz, Ralph D.	247
Tasman and Coral Seas	119
Tatsumoto, Mitsunobu	12-14
Taylor, P. T.	378
Taylor, Robert L.	296
Tazi, H.	122
Technological innovation	197

Technology	
States and cities	374
Technology Assessment	119, 183
Teitel, Simon	23
Television	
Cartoon shows	55
Drug advertising	8
Population policy	232
Social behavior	55
Violence	55, 214
Telkes, Maria	238
Teller, Edward	328
Temin, Howard	86, 345
Testosterone levels	331
Testosterone secretion	281
Thaddeus, Patrick	187
Thelen, Edmund	58
Thermal pollution	
Computer model	249
Steelhead trout	330
Third Lunar Science Conference	53, 73
Thirst	
Water temperature	330
Thommes, M. M.	249
Thrombosis	331
Thum, Denise	186
Thymus transplant	376
Thyroid cell	15
Thyroxin, Synthetic	302
Tietze, Christopher	75
Time notation	

Utilities					
R&D on pollution control	284				
Wyoming and Montana	156				
<b>V</b>					
VD control	232				
VD prevention	11				
Vacuum ultraviolet	170				
Valigorsky, Jon	92, 93				
Vandenberg Air Force Base	260				
VanDerwalker, John G.	59, 185				
Varma, Inder	86				
Vasectomies	135				
Vasopressin	285, 334, 335				
Vaughan, Herbert G., Jr.	175				
Vector boson	223				
Vela pulsar	185				
Vema fracture zone	58				
Venera 7 and 8	216				
Veneral disease	232				
Progonasyl prevents	11				
Venus					
Equatorial mountains	102				
Landings	216				
Scientists to study	152				
Very Large Array (VLA)	70, 196				
Vickrey, William	253				
Vidicon detector	301				
Vietnam veterans	39				
Vietnam war					
APA resoultion	394				
Environmental "outrage"	391				
Vigier, Jean Pierre	262, 373				
Viking '76	134, 344				
Viking Mars Landers	71				
Vincent, J. F. V.	91				
Violence, Televised	55, 214				
Violent behavior					
Neurosurgery for	174				
Vietnam war	394				
Virgo					
Distance measured	22				
X-ray source	77, 382				
Viroid	102				
Virology					
Perspectives in	118				
Viruses					
Compete for host cell	298				
Human cancer	391				
Leukemic cells	262				
Mother's milk	72				
Mouse and human	56				
Visibility decline	132, 394				
Vitamin D	362, 406				
Vitamin E					
Age-expanding	188				
Deficiency	45				
Faddist claims	45				
Research	44				
Vogt, Peter	87				
Volcanic evolution	10				
Volcanic sediments	283				
Volpe, John	332				
von Hippel, Frank	103				
Von Zahn, Ulf	152				
Voorhees, John J.	281				
<b>W</b>					
Wade, C. M.	132				
Wainwright, Loudon	101				
Walker, Alick D.	393				
Wald, George	148				
Wallace, Bruce	294				
Wallace, George C.	343				
Wallraff, Hans G.	330				
Walters, Roy W.	233				
Ward, Barbara	358				
Warner, Richard E.	325				
Wasp communication	393				
Wasserburg, Gerald J.	53, 73				
Waste conversion					
Nuclear-powered	378				
Waste oil reclaimed	58				
Waste recycled					
China	23				
Wastewater treatment	122				
Water intake	330				
Water model	37				
Water pollution control					
Exponential costs	203				
No-discharge provision	43				
Senate & House bills	230				
Wave-particle duality	262				
Wayant, Ronald W.	170				
Weak interactions	363				
Neutrino spectroscopy	222				
Neutron's lifetime	377				
Nonlocal	222				
Weather modification					
Military	254				
Weaver, Harold	187				
Weber, Joseph	149, 169, 213, 284, 312, 363, 377				
Wechsler, Henry	186				
Weinberg, Jerry	391				
Weinberg, Steven	222				
Weinheimer, A. J.	215				
Weinstock, Bernard	287				
Weitz, Charles	155				
Weitz, Paul	56				
Welch, William J.	187				
Wenk, Edward, Jr.	326				
Werby, Michael F.	297				
Weser, Oscar	362				
Westinghouse scholarships	168				
Westphal, James A.	249, 300, 301				
Whale oil substitute					
Jojoba wax	205				
Whaling moratorium	391				
Wheeler, John	297				
White, Milton G.	279, 340				
White, Robert	317				
White, William Allison	174				
Wikening, George	94				
Wilmsen, Edwin	26				
Wilsnack, Sharon C.	375				
Wilson, A. M.	213				
Wilson, A. T.	10				
Wilson, Ian C.	318				
Wilson, Marie	23				
Wilson, Ronald S.	152				
Wiltshcko, Riswitha	245				
Wiltshcko, Wolfgang	245				
Winchester, James W.	407				
Windiness	10				
Witter, Albert	335				
Witting, Lloyd A.	44				
Wollenhaupt, W. R.	292				
Wolman, Yechezkel	366				
Wong, Cheuk-Yin	297				
Wood, John A.	73, 149, 282				
Wood, Sonya D. E.	91				
Woodwell, George M.	30				
Worrall, G.	213				
<b>X</b>					
X-radiation background	170				
X-ray fluorescence					
instrument	134, 344				
X-ray nova	297				
X-ray pulsars	77				
X-ray sources					
Binary	184				
Cen X-3	185, 249				
Cen XR-3	40, 42				
Crab nebula	297				
Extragalactic	77				
Galactic (75)	76				
Intergalactic	382				
Magellanic clouds	76				
X-rays					
DNA repair	298				
Gravity waves	377				
Superheavy elements	10				
Vela pulsar	10				
Xenon, Nonplutonic	170				
<b>Y</b>					
Yahil, Amos	138				
Yamamoto, Nobuto	298				
Yannarell, Anthony	281				
Yellowstone Park	248				
Yerbury, Michael J.	153, 312				
Yerushalmy, Jacob	74, 170				
Yobs, A. R.	345				
Yohn, David S.	298				
Young, John W.	236, 247, 260, 276, 292, 311				
Young, Laurens D.	311				
<b>Z</b>					
Zapple, Nicholas	55				
Zarate, Arthur	24				
Zaugg, W. S.	330				
Zerilli, Frank	363				
Zero gravity	329				
Zero population	181				
Zissis, George J.	88				
Zooplankton, PCB's	31				
Zubay, Geoffrey	359				
Zuckerman, Benjamin	10				
Zung, William W. K.	233				