

279 This Week in *Science*

Editorial

281 A Tax on Sin: The Six-Cylinder Car

Letters

283 Cornell Cat Study: R. L. MALVIN; A. R. MORRISON; J. M. HEINEN ■ Ensuring Competitiveness: M. A. FLANAGAN ■ Ecology Funding: P. C. JAMES ■ Meta-Analysis: T. C. CHALMERS ■ Dues Increase Announced

News & Comment

301 Chemical Arms Ban Still Uncertain ■ A Plea for Scientific Help
303 Fusion Chief Reassigned as Program Is Refocused
304 Asking America About Its Sex Life
305 Bomb Factories of the 21st Century
How to Handle Misconduct Allegations
306 A Corrosive Fight Over California's Toxics Law ■ A Risk Worth Worrying About?
309 Watkins Named Energy Secretary

Research News

310 Ecologists Flirt with Chaos ■ A Simple Model of Chaos
313 Trouble Encountered in Gene Linkage Land
314 More Math Means More Money
315 Getting to the Heart of Genetic Disease: New Treatment Found for Hereditary Emphysema ■ Blood Clotting May Increase with Age ■ Lipoprotein(a)'s Role in Heart Attacks Explored
317 *Random Samples*: Danger on the Job ■ Pravda Heads for the Stars ■ Another Snow Job

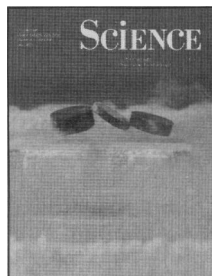
Articles

338 Prevalence and Patterns of Same-Gender Sexual Contact Among Men: R. E. FAX, C. F. TURNER, A. D. KLASSEN, J. H. GAGNON
349 Levitation in Physics: E. H. BRANDT
355 Contingent Genetic Regulatory Events in T Lymphocyte Activation: G. R. CRABTREE

Reports

364 Pheromone-Mediation of Host-Selection in Bont Ticks (*Amblyomma hebraeum* Koch): R. A. I. NORVAL, H. R. ANDREW, C. E. YUNKER
365 The Perception of Intention: V. DASSER, I. ULBAEK, D. PREMACK

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COVER Three 12-millimeter disks of the high-temperature superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ levitating above a permanent magnet, which rests in a bowl with liquid nitrogen. The pinning of magnetic flux lines inside this superconductor causes an invisible friction, which stabilizes the levitation of the disks, strongly damps its oscillation and rotation, and facilitates free suspension of small disks below a magnet. See page 349. [E. H. Brandt, Max-Planck-Institut für Metallforschung, Institut für Physik, Stuttgart, Federal Republic of Germany]

- 367 Composition of the Earth: D. L. ANDERSON
- 370 Direct Observation of Native DNA Structures with the Scanning Tunneling Microscope: T. P. BEEBE, JR., T. E. WILSON, D. F. OGLETTREE, J. E. KATZ, R. BALHORN, M. B. SALMERON, W. J. SIEKHAUS
- 373 Expression of Functional Nerve Growth Factor Receptors After Gene Transfer: B. L. HEMPSTEAD, L. S. SCHLEIFER, M. V. CHAO
- 375 Increased Expression of DNA Cointroduced with Nuclear Protein in Adult Rat Liver: Y. KANEDA, K. IWAI, T. UCHIDA
- 378 Isolation and Expression of Functional High-Affinity Fc Receptor Complementary DNAs: J. M. ALLEN AND B. SEED
- 381 The Involvement of Platelet Activating Factor in Ovulation: A. O. ABISOGUN, P. BRAQUET, A. TSAFRIRI
- 383 Atrial Natriuretic Peptide Inhibits a Cation Channel in Renal Inner Medullary Collecting Duct Cells: D. B. LIGHT, E. M. SCHWIEBERT, K. H. KARLSON, B. A. STANTON
- 385 Molecular Cloning of Genes Under Control of the Circadian Clock in *Neurospora*: J. J. LOROS, S. A. DENOME, J. C. DUNLAP
- 388 Treatment with Tin Prevents the Development of Hypertension in Spontaneously Hypertensive Rats: D. SACERDOTI, B. ESCALANTE, N. G. ABRAHAM, J. C. MCGIFF, R. D. LEVERE, M. L. SCHWARTZMAN
- 391 Plasticity and Differentiation of Embryonic Retinal Cells After Terminal Mitosis: R. ADLER AND M. HATLEE
- 393 Interleukin-1 Mitogenic Activity for Fibroblasts and Smooth Muscle Cells Is Due to PDGF-AA: E. W. RAINES, S. K. DOWER, R. ROSS
- 396 Secretion of Activin by Interstitial Cells in the Testis: W. LEE, A. J. MASON, R. SCHWALL, E. SZONYI, J. P. MATHER
- 398 Role for Excitatory Amino Acids in Methamphetamine-Induced Nigrostriatal Dopaminergic Toxicity: P. K. SONSALLA, W. J. NICKLAS, R. E. HEIKKILA

Book Reviews

- 412 First the Seed, reviewed by R. J. THOMAS ■ From Protest to Policy, W. A. GAMSON ■ The Rise of Experimentation in American Psychology, H. KUKLICK ■ Reforming the Law, P. C. DAVIS ■ Books Received

Products & Materials

- 418 Tissue Culture Kit for Melanocytes ■ Substitutes for Fetal Bovine Serum ■ Curve-Fitting and Modeling Software ■ DNA Synthesizer ■ Developing Chamber for HPTLC Plates ■ Microinjector with Micrometer ■ Solution Calculation Software ■ Literature

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Information for contributors appears on page XI of the 23 December 1988 issue. Editorial correspondence, including requests for permission to reprint and reprint orders, should be sent to 1333 H Street, NW, Washington, DC 20005. Telephone: 202-326-6500.

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A Tax on Sin: The Six-Cylinder Car

If taxes are inevitable we might as well have those that serve the national need and are popular at the same time. For this purpose, taxes on sin seem to be the only sensible choice. There are two types of sin: those committed by other people and those committed by oneself. Taxes on the sins of others will of course have wide approval; taxing the wicked is exactly what the Internal Revenue Service should be expected to do. On the other hand, taxing one's own sin is a violation of civil liberties and an outrageous intrusion on the inalienable right to the pursuit of happiness. Such taxes, however, have some positive aspects. It is somewhat like going to a charity ball at which conspicuous consumption can be rationalized on the basis that the money spent is not for one's personal pleasure, but rather a contribution to the helpless and the homeless who are the recipients of the charity. It allows one to indulge and expiate one's sins at the same time, while also acquiring something of a reputation as a bon vivant. Nothing is as deadly to one's reputation as being considered totally virtuous. Because most people like to be classed as charming scalawags, the federal government might as well benefit from the urge to sin.

Once the decision to tax has been made, the next step is to identify those sins that can be taxed to serve the national interest. One that seems obvious is owning a car that gets less than 30 miles per gallon of gasoline. Science and technology are steadily improving the efficiency of automobiles so that cars averaging 30 miles per gallon can be readily obtained with a slight sacrifice of comfort, and those giving 40 miles per gallon with a little more discomfort. To a large extent the improvement in efficiency and conservation resulting from small cars has helped break the OPEC cartel and avert another energy crisis. Has the United States proceeded intelligently to improve and expand this conservation program? Of course not. Energy efficiency and low gasoline prices have resulted in a return to heavier cars together with government encouragement of this sin by backsliding on the mileage-per-gallon goals given to the automobile industry. Because most driving occurs with a single passenger in the car, a big car is energy-inefficient and adds to the CO₂ problem, the acid rain problem, and the NO_x pollution problem. Today about a third of the U.S. trade deficit results from the importation of foreign oil. Thus, a tax that would maintain an appropriate cost of gasoline and one on cars of high horsepower would decrease fuel consumption, make a contribution to environmental problems, provide added revenue for child care, care of the chronically ill and other worthy enterprises, and improve our balance of payments.

Such a tax could be designed to be neither regressive nor coercive. If cleverly designed, and introduced over a period of years, it would not increase the cost of transportation for the average person because efficiency would be balanced against cost. It would not be coercive because the laws could specify that any individual would have the right to buy a heavy, mileage-inefficient car, but such a car would have an appropriately heavy "sin tax," so that the buyer would pay for the luxury. Any individual purchasing such a large and extravagant car would, of course, be considered sinful, but a sort of Robin Hood type of sinner, of whom the gossips could say, "There goes old Joe, can't resist the temptation of a gas guzzler, but on the other hand, he's supporting one widow, two orphans, and three toxic waste dumps." Since this type of sin would be expensive, only those who were excessively virtuous in other areas would feel the necessity of establishing themselves as sinners in this new category. If phased in properly, the main sacrifice would be in comfort, and it is widely understood that loss of comfort is almost synonymous with virtue. Once this kinder, gentler approach to sin and taxes became widely accepted, the sin tax could be extended to other areas in a similar approach to produce a national policy.

In the past, sin has been almost universally identified with personal preference. Sanctimonious and humorless attacks on smokers, drinkers, philanderers, and other offenders have had a polarizing effect, either making the one attacked look like a criminal or the attacker look like an inquisitor. A system of pay-as-you-go sin, in which sin is defined on the basis of national policy rather than personal peccadillo, could put self-indulgence in the service of the national good.—DANIEL E. KOSHLAND, JR.

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COMMENTARY

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REVIEW

Patterns of Leaf Development in C4 Plants
T. Nelson and J.A. Langdale

RESEARCH ARTICLES

Isolation of Tissue-Specific cDNAs from Tomato Pistils

C.S. Gasser, K.A. Budelier, A.G. Smith, D.M. Shah, and R.T. Fraley

Tobacco Genes Expressed during In Vitro Floral Initiation and Their Expression during Normal Plant Development

D.R. Meeks-Wagner, E.S. Dennis, K. Tran Thanh Van, and W.J. Peacock

Genes Directing Flower Development in *Arabidopsis*

J.L. Bowman, D.R. Smyth, and E.M. Meyerowitz

A Non-nodulating Alfalfa Mutant Displays neither Root Hair Curling nor Early Cell Division in Response to *Rhizobium meliloti*

M.E. Dudley and S.R. Long

The *opaque-2* Mutation of Maize Differentially Reduces Zein Gene Transcription

R. Kodrzycki, R.S. Boston, and B.A. Larkins

Studies on *Chlamydomonas* Chloroplast Transformation: Foreign DNA Can Be Stably Maintained in the Chromosome

A.D. Blowers, L. Bogorad, K.B. Shark, and J.C. Sanford

Strong Cellular Preference in the Expression of a Housekeeping Gene of *Arabidopsis thaliana* Encoding S-Adenosylmethionine Synthetase

J. Peleman, W. Boerjan, G. Engler, J. Seurinck, J. Botterman, T. Alliotte, M. Van Montagu, and D. Inzé

Multiple *cis* Regulatory Elements for Maximal Expression of the Cauliflower Mosaic Virus 35 S Promoter in Transgenic Plants

R.-X. Fang, F. Nagy, S. Sivasubramaniam, and N.-H. Chua

Uptake and Transient Expression of Chimeric Genes in Seed-Derived Embryos

R. Töpfer, B. Gronenborn, J. Schell, and H.-H. Steinbiss

5' Upstream Sequences from the *wun1* Gene Are Responsible for Gene Activation by Wounding in Transgenic Plants

J. Logemann, S. Lipphardt, H. Lörz, L. Willmitzer, and J. Schell

Expression of a Chimeric Polygalacturonase Gene in Transgenic *rin* (Ripening Inhibitor) Tomato Fruit Results in Polyuronide Degradation but not Fruit Softening

J.J. Giovannoni, D. DellaPenna, A.B. Bennett, and R.L. Fischer

Spatial Patterns of Gene Expression in *Brassica Napus* Seedlings: Identification of a Cortex-Specific Gene and Localization of mRNAs Encoding Isocitrate Lyase and a Polypeptide Homologous to Proteinases

R.A. Dietrich, D.J. Maslyar, R.C. Heupel, and J.J. Harada

A Hydrophobic, Carboxy-proximal Region of a Light-Harvesting Chlorophyll *a/b* Protein Is Necessary for Stable Integration into Thylakoid Membranes

B.D. Kohorn and E.M. Tobin

In Vitro Mutated Phytohemagglutinin Genes Expressed in Tobacco Seeds: Role of Glycans in Protein Targeting and Stability

T.A. Voelker, E.M. Herman, and M.J. Chrispeels

Functional Analysis of the 3' Control Region of the Potato Wound-Inducible Proteinase Inhibitor II Gene

G. An, A. Mitra, H.K. Choi, M.A. Costa, K. An, R.W. Thornburg, and C.A. Ryan

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