they build their nests and middens from materials found within and outside the cave (1). Moreover, because the sedimentation rate in these caves often varies (2), it is not unusual to find fossils and artifacts of different ages on the surface of the cave floor. In the Grand Canyon, I have found bones of extinct vertebrates that were dated as being more than 20,000 years old on the surface of caves near artifacts that date from 1,000 to 4,000 years ago (2).

Sometimes the age of bones found in caves has been mistakenly associated with that of archeological artifacts. For example, condors were once thought to have occurred in Texas during the Holocene because their bones were found in a cave near artifacts dated as being up to 3000 years old (3). Subsequent radiocarbon analysis of the condor remains indicated that they were much older (2). Archeologists must be cautious about these apparent associations when determining the age of human occupation. The charcoal dated at 29,000 years ago by MacNeish could have been mixed from other levels in the cave, or humans in the Holocene could have burned sticks from ancient packrat middens. Unless Mac-Neish finds human remains or artifacts that can be dated directly by radiocarbon analysis, his claim of an ancient arrival for humans in North America appears unfounded.

Steve Emslie

Board of Environmental Studies, College Eight, University of California, Santa Cruz, CA 95064

REFERENCES

- J. L. Betancourt, T. R. Van Devender, P. S. Martin, Eds., *Packrat Middens* (Univ. of Arizona Press, Tucson, 1990).
- S. D. Emslie, Science 237, 768 (1987); Nat. Geogr. Res. 3, 511 (1987); *ibid.* 4, 128 (1988).
 A. Wetmers of the Friedmann Condex 25, 27
- 3. A. Wetmore and H. Friedmann, *Condor* **35**, 37 (1933).

Cigarettes and Addiction

Thomas C. Shelling, in his article addressing the addictive aspects of smoking (24 Jan., p. 430), states that cigarettes produce no impairment of any faculty and expresses no personal concern that his airline pilot may smoke.

The absence of impairment may be true with respect to the addictive components, but where there's tobacco smoke, there is invariably carbon monoxide (CO). The National Institute of Occupational Safety and Health (NIOSH) reports that a typical CO concentration in cigarette tobacco smoke of 4% produces a carboxy-hemoglobin (COHb) concentration of 5.9% in the blood of a pack-a-day smoker (1). The concentration of COHb in the blood of cigarette smokers will range from 3 to 10%, whereas nonsmokers have an average concentration of less than 1% (2, 3).

The resultant oxygen deficiency in the blood produced by an incremental increase in the COHb concentration of as little as 3% was demonstrated by McFarland et al. almost 50 years ago to have an adverse effect on light sensitivity, or the visual threshold (3). More recent behavioral studies have suggested that COHb concentrations below 5% may alter the results of time discrimination, visual vigilance, choice response tests, visual evoked responses, and visual discrimination thresholds (1). Limitations affecting vision, timing, decisionmaking, and coordination are attributable to increased blood COHb concentrations (4)

Whether the reported behavioral effects from inhaled CO actually impair the flying ability of a airline pilot smoker may be less easily demonstrated, but a claim of no impairment of faculty from cigarette smoking does not seem justified.

Lester Levin

Environmental Studies Institute, Drexel University, 32nd and Chestnut Streets, Philadelphia, PA 19104

REFERENCES

- NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards. Occupational Health Guideline for Carbon Monoxide [DHHS (NIOSH) Publ. 81-123, National Institute for Occupational Safety and Health, Washington, DC, 1981].
- Environmental Tobacco Smoke in the Workplace, Lung Cancer and Other Health Effects [DHHS (NIOSH) Publ. No. 91-108, Current Intelligence Bull. 54, National Institute for Occupational Safety and Health, Cincinnati, OH, 1991].
- R. A. McFarland, *Human Factors in Air Transportation* (McGraw-Hill, New York, 1953); R. A. Mc-Farland, F. JW. Roughton, M. H. Halperin, J. I. Niven, *Aviat. Med.* 15, 381 (1944).
- Controlling the Smoking Epidemic, Report of the WHO Expert Committee on Smoking Control (Technical Report Ser. 636, World Health Organization, Geneva, 1979).

Schelling's statement that cigarettes cause "no loss of visual acuity" contradicts what I learned in my training as a pilot. Smoking, as Schelling acknowledges, introduces carbon monoxide into the blood. Night vision is reduced by the inhalation of carbon monoxide in cigarette smoke (1). Carbon monoxide is also thought to reduce peripheral vision. These effects increase with altitude, and airliners are typically pressurized to a "cabin altitude" of about 8000 feet.

> Thomas C. Mosca III Route 5, Box 1143.

> Gloucester, VA 23061

SCIENCE • VOL. 256 • 24 APRIL 1992

REFERENCES

 Federal Aviation Regulations/Airman's Information Manual, AIM (Aviation Supplies & Academics, Renton, WA, 1991), p. 290.

Schelling's article about addiction and cigarettes presents puzzling contradictions. It seems difficult to reconcile stating that cigarettes are highly addictive while also saying that 50 million people, or "half the men who ever smoked in this country have quit, and nearly half the women," and that they have done so on a voluntary basis, in a climate of ready and legal availability of cigarettes. Evidence shows that many continue to smoke, not because cigarettes are addictive, but because the rewards are immediate and tangible while possible negative consequences are remote, uncertain, and hard to visualize.

With the fitting analogy of cigarettes and chocolate, Schelling also implies that a more precise definition of "addiction" is in order, lest we find ourselves "addicted" to most things we do. To compare nicotine with crack would seem an assault on common sense, especially when many scientists and the U.K. Scientific Committee on Smoking and Health agree that nicotine is probably harmless at the doses experienced by smokers (1). And given that nicotine is responsible for most of the desired effects of smoking, Schelling rightly laments the obtuse U.S. policy against exploring new cigarettes that may deliver less smoke and more nicotine.

Smoking may indeed be a legitimate target, but when public health policy ignores reality and common sense, it becomes a brazen political tool. Today this tendency is pervasive. It extends beyond smoking to the cavils of infinitesimal exposures to putative carcinogens, raising troubling questions about the limits of paternalism (2) and of puritanical presumption.

Gio Batta Gori

Health Policy Center, 6704 Barr Road, Bethesda, MD 20816

REFERENCES

- Fourth Report of the Independent Scientific Committee on Smoking and Health (Her Majesty's Stationery Office, London, 1988).
- H. M. Leichter, Free to be Foolish: Politics and Health Promotion in the United States and Great Britain (Princeton Univ. Press, Princeton, NJ, 1991).

Consolidation at Yale

In Richard Stone's News & Comment article "Yale plan draws faculty fire" (24 Jan., p. 398), my comments regarding consolidation were meant to describe the consolidation of resources that will be essential in the



Good News for DOS and Windows users!

EndNote Plus on the PC is shipping! If you're using Microsoft Word for Windows, Word-Perfect, or WordPerfect for Windows, End-Note Plus can save you hours of work! You want to cite a paper? Simply switch to End-Note Plus, select the reference and paste it into any of these word processors! When you're ready to submit your paper, select a bibliographic style and EndNote Plus will format both the bibliography and the in-text citations according to the selected style.

Why is EndNote Plus Better? "It's all in the details."

Most bibliographic software packages include basic features like the ability to search for references and output them in different formats. But as one of our users told us recently: "It's all in the details". The differences emerge when you ask yourself questions like these:

- Can my records include expressions like α or ¹⁴C and diacritical marks like é or ü?
- Does my software reformat just the bibliography or also the in-text citations?
- Does it work directly with Windows word processors? with WordPerfect?
- Does it support different reference types? (e.g. journal articles, books, theses, etc.)
 Does it output the bibliography in my
- Does it output the bibliography in my word processor or just as an ASCII file? ■ Will it take me less than 5 minutes to
- While it take the less than 5 minutes to teach a student how to enter data?
 Can it output authors with full names or
- Can it output authors with run names of initials? with or without periods? with or without spaces? with or without commas?
 Does it have a TSR? If so, does it allow me
- to add, edit and search references?
- Can it output the first author's name as J. Smith and the second author as Johns, G.?
- Will it find records quickly and easily?
 Can I share data with Mac users without loosing Greek characters and diacriticals?
- Can I easily create my own style?
- Is it completely free of copy-protection?
 Was it updated in the last 12 months?

EndNote Plus for the IBM PC is shipping! Upgrade your old Bibliographic Software now!

Can I easily move between fields even if I'm not finished entering one?

Can I add fields for my own use? Are there fields for abstracts and notes?

If you answered "yes" to all these questions, you're using EndNote Plus.

Unbiased Opinion:

Obviously, we're a little biased, so here's what the press has said about our products: "the clear winner in the bibliographic database management race." —*MacGuide* "[it does] practically everything except type in the data" —*Personal Computer World* "The results we got from EndNote Plus were outstanding." —*MacWeek* "EndNote Plus is a terrific bargain."

—Information Today

Import from Other Programs

We realize that you may have thousands of records in your old program, so we made it easier for you to switch. We have instructions on transferring data from several bibliographic programs into EndNote Plus. Call us to see if these instructions cover the software you currently use.

Upgrade Now for \$169

If you upgrade before 5/30/92, you'll pay just \$169 instead of \$249. Send a photocopy of the first page of the manual of any bibliographic software (PC or Mac). Attach it to your check or fax it with your university purchase order to (510) 649-8179. If you're not 100% happy with EndNote Plus, simply return it within 30 days and we will refund your money.



Purchase orders accepted only from universities in the U.S. All trademarks acknowledged. coming decade. First and foremost Yale is committed to excellence in all disciplines including science and engineering. We are grappling with the difficult questions that all institutions are now facing including the issue of whether to emphasize breadth or depth in a time of diminishing resources. Yale's effort to find solutions that would avoid freezing faculty salaries or appointments and across-the-board cuts are currently under intense scrutiny by the faculty, as Stone indicates, and also by the administration and the Yale trustees. No final decisions have yet been made regarding Yale's approach to these compelling problems, and the impact of these decisions on our colleagues and on the quality of our programs at Yale is of central concern.

Judith Rodin Dean, Graduate School, and Departments of Psychology and Medicine and Psychiatry, Yale University, Post Office Box 1504A Yale Station, 320 York Street, New Haven, CT 06520

Corrections and Clarifications

- In the "Women in Science" special section (13 Mar.), Rhonda Hughes, chairperson of mathematics at Bryn Mawr College, was quoted correctly in the article "Profile of a field: Mathematics: Heroism is still the norm" (p. 1382) as saying that graduate school in math constitutes a "minefield" for women. The next sentence said that some of the "land mines concealed under the surface include a lack of encouragement from faculty members, sexual advances of mentors-and a suspicion on the part of male colleagues that women can succeed only by sleeping with male mathematicians." Those specifics came from interviews with a number of female mathematicians, not from Hughes, and the sentence should have said so.
- In the "Data points" on page 1376 of the "Women in Science" special section (13 Mar.), the table that ranks institutions of higher education had an incorrect title and caption. The title should have been "Where female Ph.D.'s received their baccalaureate degrees," and the caption should have reflected that fact.
- In Ivan Amato's 17 April article "Chemists vie to make a better taxol" (Research News, p. 311), Walter E. Goldstein of the ESCAgenetics Corporation in San Carlos, California, was incorrectly named "Arthur Goldstein."
- In Ivan Amato's 17 April article "The ascent of odorless chemistry" (Research News, p. 306), Roald Hoffmann's name (p. 308) was incorrectly spelled.

Circle No. 11 on Readers' Service Card