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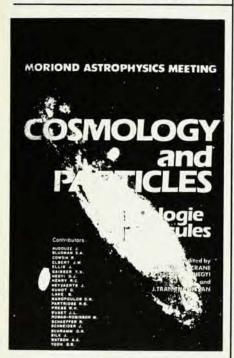
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### letters

of this program represents a gratuitous insult to the physics community.

The cuts in the social-sciences budget, as well as in such programs as the history of science, are only one part of a well-orchestrated anti-intellectual campaign. Other parts are the cutbacks in support of education at all levels and of the Endowment for the Humanities. Some of the motivation lies in the desire to please those who would replace the theory of evolution with biblical myths. In this sense the motivation resembles that of the antiintellectual campaigns of Hitler and Stalin. As in those cases the physicists have a somewhat privileged position because they are thought to be needed to help build a huge aggressive war

I believe it is incumbent on the physics community to play a leadership role in combatting this anti-intellectual campaign.

LINCOLN WOLFENSTEIN Carnegie-Mellon University Pittsburgh, Pennsylvania

#### Nobel cover

9/81

The cover of the AIP 50th Anniversary Issue (November 1981) contains several errors.

If you intended to put the Nobel Prize winners in chronological order by decades, as you say on the cover, then note the following misplacements:

Bethe 1967; Van Vleck 1977; Mayer (Goeppert-Mayer) 1963; Rainwater 1975; Gell-Mann 1969. There are possibly several other errors.

Furthermore, it seems to me that you stretch the case by including Fermi, who got the prize while in Italy, for work done there while still an Italian citizen. If you include him you should include J. Franck, O. Stern and several other physicist of European origin.

EMILIO SEGRÈ
University of California
12/81 Berkeley, California

The arrangement was—when possible—to reflect the time of the active research rather than the date of the prize. The Editors.

## More on gyroscopes

The news story on fiber-optic gyroscopes in October (page 20) leaves the impression that the first fiber gyros had such a low response that a rapidly rotating table was required. In our 1976 paper<sup>1</sup> it is shown experimentally that the wavefront does not get scrambled in long fibers, making it possible to

build not only fiber gyroscopes but other fiber sensors (acoustic, magnetic, temperature, and so on). Subsequently² several gyroscopes were built, including one with 1.5-km-long, single-mode fiber. Its diameter was one meter. From  $\Delta Z = 2\omega LR/\lambda c$  one gets, for one complete fringe ( $\Delta Z = 1$ ) or  $2\pi$  phase shift in the interference pattern,  $\omega \cong 5^{\circ}/\text{sec}$ . This is less than one RPM for a full fringe. The noise level of that instrument was equivalent to about ten times the earth's rotation rate for 0.1 second averaging time.

One of the important objectives in building fiber gyroscopes is to eliminate all active optical components in the beam path. This would increase its reliability and make it virtually maintenance-free. It was done only partially in both Shaw's and Ezekiel's experiments. I think that it is possible to approach this goal with the new polarization-maintaining single-mode fibers and super-radiant or LED light sources.

#### References

- V. Vali and R. W. Shorthill, Appl. Opt. 15, 1099 (1976).
- V. Vali and M. F. Berg, Proceedings of SPIE, San Diego (1978).

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## More on coining words

In a recent letter (September, page 13) Kenneth Sassen describes the introduction of the word "monochrombow" for Airy's rainbow, to emphasize the "chromatic pureness of the laser generated variety." Some neologisms tickle the ear with euphony and grace the English language by filling in a void. "Monochrombow," heaven spare us, does neither; instead it bludgeons the ear and inflates the language. Furthermore, it is a bastard neologism, a grotesque offspring of a forced wedding between the Greek root monochromatos and the Old English root boga. Let us hope for the blessing of an early natural death for the unfortunate progeny, lest we find ourselves searching for an "aurumpot" at the end of a "polychrombow."

STEPHEN CURLEY
WILLIAM A. SEITZ
Texas A&M University at Galveston
Galveston, Texas

Sassen (University of Utah) describes the process he followed in coining the (admittedly clever) word, monochrombow. Concerning his dilemma over the spelling of the word (monochrombow or monochromebow), he confesses to have been influenced by the "phonetic similarity with the medieval monotoned

krummhorn" (he also confesses to being a word-god).

The krummhorn, Professor Sassen, is neither medieval nor monotoned. It is an encapsulated double-reed instrument with a range of about an octave. and it was popular in the Renaissance and early Baroque (word-gods should note that it is closely related to the kortholt and the rauschpfeife).

EDWARD L. KOTTICK University of Iowa Iowa City, Iowa

10/81

## Report from Indian conference

Following on the publicity given in your September issue (page 54) to events connected with the International Conference on Applications of the Mössbauer effect, originally to have been held in Srinigar, India, last July, but postponed until December 1981, we wish to report that we both attended the very successful meeting which took place in Jaipur. The conference took place under the sponsorship of IUPAC and we received prior notification that landing permits would be granted to us upon arrival at Bombay airport. The organizers, under the leadership of V. G. Bhide, arranged an excellent scientific program covering the whole field in which the international community of Mössbauer spectroscopists participated very fully. Many exciting and new developments were reviewed. The meeting was in the best tradition of the series of very successful international conferences in this field which have been held in recent years.

Our congratulations and thanks are extended to Bhide and his colleagues in organizing this excellent and enjoyable meeting, despite the initial difficulties.

E. R. BAUMINGER S. G. COHEN Racah Institute of Physics Hebrew University Jerusalem, Israel

12/81

### Corrections

In Erwin N. Hiebert's review (January page 69) of the book From Being to Becoming by I. Prigogine, the second of each pair of relations between t and -tshould read  $t \leftrightarrow -t$ .

October 1981, page 31-Bottom of third column, an equation had been left out of the following sentence: "For a copper plate stimulated at 5 MHz this expression reduces to

 $\Delta r = 0.271 h^{1/2}$ 

with  $\Delta r$  and h in centimeters and with no adjustable parameters."

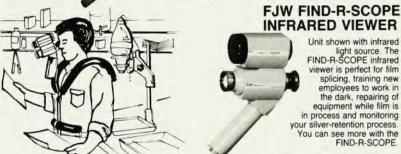


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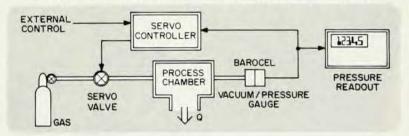
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