

## This Week

- 68 Speech Insights Sound Off in the Brain  
*Bruce Bower*
- 68 Southern twisters: Don't blame La Niña  
*Richard Monastersky*
- 69 Tobacco plants enlisted in war on cancer  
*John Travis*
- 69 Do reshuffled genes cause autoimmunity?  
*Nathan Seppa*
- 70 Electromagnetic fields may damage hearts  
*Janet Raloff*
- 70 Catching a burst's visible glow  
*Ron Cowen*
- 71 Competing students' science skills sparkle  
*Peter Weiss*
- 71 Who says only one sperm gets the prize?  
*Susan Milius*

## Articles

- 72 Sea Sickness  
Marine epidemiology comes of age  
*Janet Raloff*
- 76 A Little Mass Goes a Long Way  
Fresh evidence for neutrino mass  
may open a new frontier in physics  
*Peter Weiss*

## Letters

### Crisis without confidence

"Geologists anticipate an oil crisis soon" (SN: 10/31/98, p. 278) contains a lot of economic nonsense. The most egregious statement is the remark that "by 2020, demand will exceed supply by 17 million barrels a day." The price of oil will move as necessary to clear the market (bring about equality between demand and supply) in exactly the way prices move to clear every other market.

Also nonsensical is Campbell and Laherere's hypothesis that oil production will peak when the quantity of oil burned equals the quantity remaining to be extracted. Oil producers, like all other businesses, seek to maximize the present value of their profit flow. What is it about such behavior that would make them want to reduce production just because the world has used up exactly half the existing oil?

Like Joseph storing grain during the 7 years of plenty in order to have it available in the 7 years of famine, oil producers will withhold some of their oil today to have it available in the future.

Finally, producers of competing energy sources will step up their efforts as the supply of oil diminishes and its price rises.

*John J. Seater  
North Carolina State University  
Raleigh, N.C.*

Oil is a finite resource formed only rarely in time and place in the Earth's long history. Accordingly, production starts and ends at zero. It should surprise Mr. Seater that the production peak comes in between, around the midpoint of depletion. The endowment of most geological basins in the world is now known within reasonable limits, thanks to the advances in technology. Most, apart from the Middle East, are past or close to the midpoint of depletion. As the International Energy Agency confirms, the non-Middle East countries will peak around 2000, and the global peak is not long delayed.

*Colin J. Campbell  
Petroconsultants  
Geneva, Switzerland*

### Shifting assumptions

An accelerating universe needs a "force"

behind it, at least, per Newtonian models. Rather than creating more ways to explain these data as well as the discoveries of more and more distant (and complex) galaxies ("Studies support an accelerating universe," SN: 10/31/98, p. 277), perhaps it is time to revisit our standard model and to also ask "what if" questions concerning our assumptions, say, of the fundamental value of "c." After all, we've only measured this constant over the past 100 years, and extrapolations into the millions and billions of years may, in fact, provide significant errors.

*Del Dietrich  
Campbell, Calif.*

### Really chicken research

Please tell me that the research into the reaction of chickens to flying raccoons was not funded by the U.S. taxpayer ("The Science of EEEEEK" SN: 9/12/98, p. 174). By the way, my own, privately-funded, research reveals that raccoons are mildly amused but otherwise unaffected by the sight of flying chickens. Documentation available to interested parties.

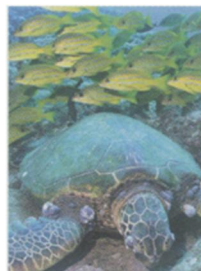
*Bill Black  
Falmouth, Mass.*

## Research Notes

- 78 Biology  
Night life discovered for bumblebees  
Do parasites explain female promiscuity?
- 79 Astronomy  
Solar system planets: Freaks of nature?  
Heavy elements: Signposts of planets?  
New radio map of Milky Way's center

## Departments

- 66 Science News Books
- 67 Letters



**Cover:** This green sea turtle in Hawaiian waters bears small fibropapilloma tumors, a noncancerous but debilitating disease. Research has begun linking toxic algae, climate, and pollution to such emerging, poorly understood marine epidemics. **Page 72** (Photo: Ursula Keuper-Bennett)

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