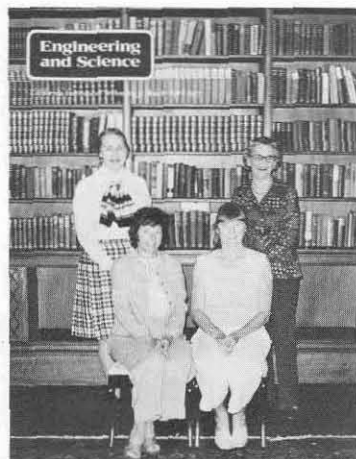


## In This Issue



### Wives' Lives

On the cover — the four members of a very special group in the Caltech community, the wives of the faculty Nobel Laureates. Earlier this year the Caltech Y arranged a program in which graduate students' wives were given an opportunity to meet and talk with two of the Nobel wives about what life is like for the wives and families of such notable scientists. Only Margaret Gell-Mann and Manny Delbruck were able to be present on that occasion, and they are shown below on either side of Eileen Hahn, who acted as chairman of the meeting. The questions and their responses turned out to be so fascinating that *E&S* asked the same questions of the other two — Lorraine Anderson and Gweneth Feynman.

"Maybe You Know All About Him — But What About Her?" on page 13 is our adapted and enlarged version of those interviews and your opportunity to meet these ladies — shown on our cover from left to right, standing, Margaret Gell-Mann and Lorraine Anderson; seated, Gweneth Feynman and Manny Delbruck.

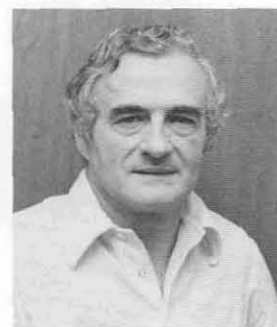


### Who's In Charge?

Bruce Murray, professor of planetary science at Caltech, has a distinguished record of vision and achievement as a scientist — two qualities that are now standing him in good stead in his new position as director of the Jet Propulsion Laboratory. But Murray is not a man to limit his inquiries to his immediate professional concerns, and thus he has increasingly applied those same qualities to taking a thoughtful look at the challenges of the future. His Watson Lecture on December 8 examined some of man's possibilities for a new world view. "Are We Going To Rule Our Own Technology — Or Will We Be Ruled By It?" on page 3 is adapted from that talk.

### Straight Talk

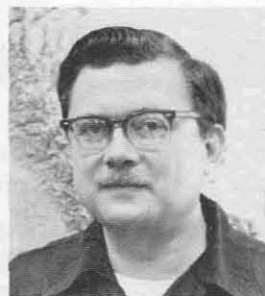
One of the unofficial but valuable talents for seismologists is the ability and willingness to explain to the public what's happening in the earth — insofar as possible. Caltech is fortunate to have a number of such articulate scientists, and recently radio station KPFK interviewed



### Hard Questions

Continuing to ask hard questions about science and public policy must often seem an endless task to the concerned scientist — a situation that removes none of his sense of responsibility. Robert Sinsheimer, professor of biophysics and chairman of the division of biology, has become well known as one of the most thoughtful and articulate spokesmen for accountability in scientific decisions. It is a pleasure for *E&S* to print "Whither Molecular Biology?" on page 29, which is adapted from a speech he made recently at the Argonne Symposium.

three of them for the benefit of its listeners. Clarence Allen, Don Anderson, and Hiroo Kanamori responded to questions by John Kotick and Diane Moyer on the subject of "Predicting Earthquakes," and on page 10 *E&S* presents an adaptation of that interview.



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