LETTERS

EDITORIAL
Prospects for Research Libraries: G. Black

ARTICLES
Phonon Optics and Phonon Propagation in Semiconductors: V. Narayananamurti
Rational Approaches to Chemotherapy: Antisickling Agents: I. M. Klotz, D. N. Haney, L. C. King
Producer Gas Engines in Villages of Less-Developed Countries: R. Datta and G. S. Dutt

NEWS AND COMMENT
The Politics of Paleoanthropology
The Waterway That Cannot Be Stopped
Briefing: Reagan's Cabinet Split on Synfuels Funding; Legislators Clear Way for Koop Nomination; Search Begins for New NIH Chief
DOE Laboratories in the Spotlight

RESEARCH NEWS
Investigators Focus on Intracellular pH
Toward a Proof of Quark Confinement
The Day of the Locusts Is Near

BOOK REVIEWS
Genes, Mind, and Culture, reviewed by C. R. Cloninger and S. Yokoyama; The Physiological Ecology of Phytoplankton, J. C. Goldman; Theory of the Nuclear Shell Model, G. Bertie: The Last Great Ice Sheets, C. R. Bentley; Books Received

BOARD OF DIRECTORS
FREDERICK MOSTELLER, Retiring President, Chairman
D. ALLAN BROMLEY, President
E. MARGARET BURBIDGE, President-Elect
ELoISE E. CLARK, EDWARD E. DAVID, JR., NANCIE L. GONZALEZ, DAVID A. HAMBOURG

HAIRMAN AND SECRETARIES OF DIVISIONS
MATHEMATICS (A) Ralph P. Boas
MATHEMATICS (B) Ronald Graham
PHYSICS (B) Maurice Goldhaber
PHYSICS (C) Rolf M. Sinclair
SOCIAL, ECONOMIC, AND POLITICAL SCIENCES (K) James G. March
HISTORY AND PHILOSOPHY OF SCIENCE (L) History Committee
ENGINEERING (M) Michael Michals
INFORMATION, COMPUTING, AND COMMUNICATION (T) Donald E. Marlowe

EDUCATION (O) Ann C. Hove
DENTISTRY (R) Maynard K. Hine
PHARMACEUTICAL SCIENCES (S) Harold M. Fullmer

VISIONS
ALASKA DIVISION
John Bligh, President
T. Neil Davis, Executive Secretary

PACIFIC DIVISION
Robert I. Bowman, President
Alan E. Leviton, Executive Director
Max P. Dunford, President

SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION
M. Michelle Balcomb, Executive Officer

SCIENCE is published weekly on Friday, except the last week in December, by the American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Second-class postage (publication No. 484446) paid at Washington, D.C., and at an additional entry. New combined with The Science Monthly. Copyright © 1981 by the American Association for the Advancement of Science. Domestic individual membership and association subscription (51 issues): $43. Domestic institutional subscription (51 issues): $80. Foreign postage extra: Canada $24, other (surface mail) $7, air-service via Amsterdam $55. First class, airmail, school-year, and student rates on request. Single copies $2 (50 cent by mail); back issues $3 (50 cent by mail); classroom rates on request. Change of address: allow 6 weeks, giving old and new addresses and seven-digit account number. Postmaster: Send Form 3579 to Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Science is listed in the Reader's Guide to Periodical Literature and in several specialized indexes.
### PRODUCTS AND MATERIALS

- Ultraviolet Absorbance Monitor; Thermometer; Laboratory Personal Computer; Rotary Microtome; Line Printer; Data Terminal for Particle Size Analyzer; Apnea Detector; Literature.

### REPORTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lapita Colonization of the Admiralty Islands?</td>
<td>J. Kennedy</td>
<td>757</td>
</tr>
<tr>
<td>The Permeability of Plant Cell Walls as Measured by Gel Filtration</td>
<td></td>
<td>761</td>
</tr>
<tr>
<td>Antibiotic-Induced Inhibition of Pheromone Synthesis in a Bark Beetle</td>
<td>J. A. Byers and D. L. Wood</td>
<td>763</td>
</tr>
<tr>
<td>Fidelity of Mammalian DNA Polymerases</td>
<td>T. A. Kunkel and L. A. Loeb</td>
<td>765</td>
</tr>
<tr>
<td>Radioactivity Measurements of Former Military Personnel Exposed to Weapon Debris</td>
<td>R. E. Toohey et al.</td>
<td>767</td>
</tr>
<tr>
<td>Pituitary Gastrins Occur in Cricotopus and Melanotrophi</td>
<td>L.-I. Larsson and J. F. Rehfeld</td>
<td>768</td>
</tr>
<tr>
<td>Methylation of Trimethyltin Compounds by Estuarine Sediments</td>
<td>H. E. Guard, A. B. Cobet, W. M. Coleman III</td>
<td>770</td>
</tr>
<tr>
<td>Human Lupus Inclusions and Interferon</td>
<td>S. A. Rich</td>
<td>772</td>
</tr>
<tr>
<td>Genetic Studies of an Acardiac Monster: Evidence of Polar Body Twinning in Man</td>
<td>F. R. Bieber et al.</td>
<td>775</td>
</tr>
<tr>
<td>Sexual Difference Theory: Mormon Crickets Show Role Reversal in Mate Choice</td>
<td>D. T. Gwynne</td>
<td>779</td>
</tr>
<tr>
<td>Sparrows Learn Adult Song and More from Memory</td>
<td>P. Marler and S. Peters</td>
<td>780</td>
</tr>
<tr>
<td>Electrotonic Coupling Between Pyramidal Cells: A Direct Demonstration in Rat Hippocampal Slices</td>
<td>B. A. MacVicar and F. E. Dudek</td>
<td>782</td>
</tr>
<tr>
<td>Recruitment in a Sea Anemone Population: Juvenile Substrate Becomes Adult Prey</td>
<td>K. P. Sebens</td>
<td>785</td>
</tr>
<tr>
<td>Intracellular Recordings from Thermosensitive Preoptic Neurons</td>
<td>D. O. Nelson and C. L. Prosser</td>
<td>787</td>
</tr>
<tr>
<td>Integration of Visual and Infrared Information in Bimodal Neurons of the Rattlesnake Optic Tectum</td>
<td>E. A. Newman and F. H. Hartline</td>
<td>789</td>
</tr>
</tbody>
</table>

### COVER

Sea anemone (*Anthopleura xanthogrammica*) in a tide pool beneath mussel beds, Torch Bay, Alaska. Sea anemones capture mussels released by wave action and by sea star foraging. Mussel beds also serve as "nursery" areas for juvenile anemones which grow and then move downward into pools and crevices. Larval selection or differential survival in mussel beds provides a convenient mechanism for anemones to home in on what will be the most common adult prey. See page 785. [K. P. Sebens, Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts 02138]