<table>
<thead>
<tr>
<th>531</th>
<th>This Week in Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>533</td>
<td>Editorial</td>
</tr>
<tr>
<td>535</td>
<td>Letters</td>
</tr>
<tr>
<td>537</td>
<td>News &amp; Comment</td>
</tr>
<tr>
<td>545</td>
<td>Research News</td>
</tr>
<tr>
<td>551</td>
<td>Association Affairs</td>
</tr>
<tr>
<td>555</td>
<td>Articles</td>
</tr>
<tr>
<td>561</td>
<td>Research Articles</td>
</tr>
<tr>
<td>585</td>
<td>Reports</td>
</tr>
</tbody>
</table>

**Editorial**

533 New Risks of Prejudice, Ethnocentrism, and Violence: D. A. Hamburg

**Letters**


**News & Comment**

537 Diet Advice, with a Grain of Salt and a Large Helping of Pepper
540 Britain, France Play It Safe on Channel Tunnel
541 Europeans Embrace Technology Assessment
542 **Briefing**: EPA Proposes Ban on Asbestos • Smelter Pollution Provides Chance for Acid Rain Study • Who Should Have Rights to a Patient's Cells? • Zech Named NRC Head • NBS Plans to Shut Down Source of New Talent

**Research News**

545 RNA Catalysis Gives Fresh Perspective on the Origin of Life
546 Wisconsin Storage Ring Reaches 120 Milliamps
548 Sinking Slabs Puncture Layered Mantle Model

**Association Affairs**

551 Annual Report of the Executive Officer

**Articles**

555 Quantum Monte Carlo: D. Ceperley and B. Alder

**Research Articles**

574 Mechanism of Transmitter Release: Voltage Hypothesis and Calcium Hypothesis: R. S. Zucker and L. Landó
579 Role of Seasonality in the Evolution of Climate During the Last 100 Million Years: T. J. Crowley, D. A. Short, J. G. Mengel, G. R. North

**Reports**

587 Translocation of Protein Kinase C Activity May Mediate Hippocampal Long-Term Potentiation: R. F. Akers, D. M. Lovinger, P. A. Colley, D. J. Linden, A. Routtenberg
589 Equine Infectious Anemia Virus *gag* and *pol* Genes: Relatedness to Visna and AIDS Virus: R. M. Stephens, J. W. Casey, N. R. Rice

597 All Members of the MHC Multigene Family Respond to Thyroid Hormone in a Highly Tissue-Specific Manner: S. Izumo, B. Nadal-Ginard, V. Mahdavi


603 Protein Modification by Amino Acid Addition Is Increased in Crushed Sciatic But Not Optic Nerves: S. Shyne-Athwal, R. V. Riccio, G. Chakraborty, N. A. Ingoorgia

605 Herbivores' Direct and Indirect Effects on Algal Populations: R. W. Sterner

607 Stress-Induced Inhibition of Reproductive Functions: Role of Endogenous Corticotropin-Releasing Factor: C. Rivier, J. Rivier, W. Vale

609 Obesity, Overeating, and Rapid Gastric Emptying in Rats with Ventromedial Hypothalamic Lesions: J. P. Duggan and D. A. Booth

611 Postindustrial Melanism in the Peppered Moth: L. M. Cook, G. S. Mani, M. E. Varley


616 Molecular Basis for the Auxin-Independent Phenotype of Crown Gall Tumor Tissues: M. F. Thomashow, S. Hugly, W. G. Buchholz, L. S. Thomashow


623 R&D and the Budget Crisis ■ Advance Registration Form


629 Large-Scale Ultrasonic Liquid Processor ■ Alternative Laboratory Unit ■ Gradient Formers ■ Culture Plate Insert ■ Immunoassay Washer ■ Fixed-Volume Dispenser ■ Spectrum Analysis Probe ■ Literature

Cover  Chart of San Francisco Bay drawn following the bay's discovery in 1769 by Spanish colonizers. The region remained isolated until the discovery of gold in 1848 ushered California and its largest estuary into a rapid change. See page 567. [From manuscript map in Ministerio de Guerra Archives, Madrid, by José de Caízaires, pilot of the Spanish vessel San Carlos, 1776. Photo courtesy of Bancroft Library, University of California, Berkeley 94720]