643 This Week in Science

Editorial

645 The Underside of Overhead

Letters

661 Health Care Rationing: P. R. WOLFE; W. HIGGINS; W. G. GUNTEROTH; R. CRAWSHAW; H. AARON AND W. B. SCHWARTZ ■ Competition Exclusion Principle: J. MOORE

News & Comment

672 Struggling to Do Science for Society
674 Learning to Drink from a Fire Hose
676 Dingell: AIDS Researcher in Conflict
677 U.S. Math Still in Poor Health
678 Billion-Dollar Orphans: Prescription for Trouble

Research News

682 Mycoplasmas in the AIDS Spotlight
684 Sunspot-Weather Link Is Down But Not Out
685 “Superantigens” May Shed Light on Immune Puzzle

Articles

697 Numerical Transforms: R. N. BRACEWELL
705 The Staphylococcal Enterotoxins and Their Relatives: P. MARRACK AND J. KAPPLER

Research Article

712 Crystal Structures of an Antibody to a Peptide and Its Complex with Peptide Antigen at 2.8 Å: R. L. STANFIELD, T. M. FIESER, R. A. LERNER, I. A. WILSON

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The hypothesis that endangered green turtles (Chelonia mydas) return to their natal beach to nest is supported by restriction fragment analysis of mitochondrial DNA. Thirty or more years may elapse before these high-seas travelers make their first return migration. Reproductive colonies are likely to be demographically independent and consequently must be managed on a colony-specific basis. See page 724. [Photograph by Anne B. Meylan]