This Week in Science

Editorial

1045 Careers in Science

Letters


ScienceScope

1055 Soviet chemists go capitalist; Mauna Kea observatories eclipsed; etc.

News & Comment

1056 Ultimate Recycling: Nuclear Warheads
1058 Hard Times for Big Science
OMB Tries on a Cap
1059 Breast Implant Fears Put Focus on Biomaterials ■ Implants: How Big a Risk?
1061 Scientists Educate the Science Educators
1063 Briefings: America Rules the Words ■ Pediatrician Kicks Sacred Cow ■ Checkerbot ■ NSF Bestows Waterman, Bush Awards

Research News

1064 “Matrix Algebra” Heals Life’s Wounds ■ Growth Factors in the Clinic: Slow Going ■ Wound Healing in the Womb
1067 Tomb of Key Maya Ruler Found
A New Tumor Suppressor Gene?
1070 Unraveling the Genetics of Fragile X Syndrome

Perspective

1078 The Recruitment of Crystallins: New Functions Precede Gene Duplication: J. Piattgorsky and G. Wistow

Articles

1080 Are Prescription Drug Prices High?: P. R. Vagelos
1085 Nanosurface Chemistry on Size-Selected Silicon Clusters: M. F. Jarrold
1092 1990: Anus Mirabilis of Potassium Channels: C. Miller

Research Article


Careers Section

1107 Special Report: Science Careers ■ A Guide to the ‘90s for New and Future Scientists
COVER The career path of a scientist in the 1990s may seem a high-wire act with a dotted-line future. Today’s successful scientist walks a tenuous line between seeking security in an uncertain funding environment and taking risks in an age of spectacular advances. He or she is asked to balance the competing tug of business and academe, of applied and basic research, of authority based on narrow expertise and utility based on multidisciplinary experience. Our special pull-out report on careers, beginning on page 1107, is meant to help scientists navigate their individual high wires. [Image by Guy Billout]

Reports

1157 New Mechanism of Cavitation Damage: Y. L. CHEN and J. ISRAELACHVILI
1160 The Chemical Nature of Buckminsterfullerene (C60) and the Characterization of a Platinum Derivative: P. J. FAGAN, J. C. CALABRESE, R. MALONE
1162 Predicting Coiled Coils from Protein Sequences: A. LUPAS, M. VAN DYKE, J. STOCK
1171 Requirement of GTP Hydrolisis for Dissociation of the Signal Recognition Particle from Its Receptor: T. CONNOLLY, P. J. RAPIJEKO, R. GILMORE
1173 Effect of Wnt-1 and Related Proteins on Gap Junctional Communication in Xenopus Embryos: D. J. OLSON, J. L. CHRISTIAN, R. T. MOON

Inside AAAS

1184 The SWAT Team Wore Suits: AAAS Deploys Quick-Response Congressional Seminars □ In Brief □ Uncalculated Art □ Women, Minorities, and Science

Book Reviews

1186 Causes of Evolution, reviewed by A. Larson □ The Mississippian Emergence, G. R. Milner □ Solenhofen, L. D. Martin □ Concepts and Applications of Molecular Similarity, J. B. Hendrickson □ Books Received

Products & Materials

1190 Sequence Processing Software □ Thermostable DNA Polymerase □ Microtome Line □ Conversion Software □ Molecular Graphics Software □ Gel Electrophoresis Documentation System □ Columns for Capillary Electrophoresis □ Literature