

303 This Week in *Science*

Editorial

305 On Being a Scientist

Letters

311 *Hormesis*: W. H. KOPPENOL AND P. L. BOUNDS; R. J. CATLIN ■ *Solar Power*: A. R. PALMER; J. SWARTZ ■ *SSC Test Magnets*: R. F. SCHWITTERS; M. CRAWFORD ■ *Asian-American Students*: C. C. SELBY

News & Comment

317 NSF Education Head Makes Risky Bid ■ Getting Energy into the Schools
319 Research Chief to Leave DOE
320 IBM Wins Patent for Thallium Superconductor ■ Zero Resistance at 250 K?
321 Bromley Targets Superconductors
Landsat: Cliff-Hanging, Again
322 B-2 Comes Up Short

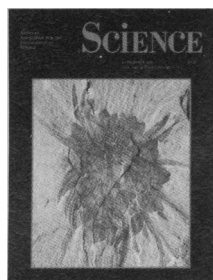
Research News

323 Rivalry Across the Z's
324 Ozone Hits Bottom Again
325 Catalytic RNA Wins Chemistry Nobel
326 Cancer Gene Research Wins Medicine Nobel ■ Controversy Over Nobel
327 Basic Measurements Lead to Physics Nobel
328 Building on Nobel Research ■ Early Work Rewarded
329 *Briefings*: Van Allen Wins Space Nobel ■ Russian Bugs Drafted in U.S. War ■ Tech Transfer Triggers Protest ■ Peace Corps to Help Environment ■ Would It Be Mars Without NASA?

Articles

339 Burgess Shale Faunas and the Cambrian Explosion: S. CONWAY MORRIS
347 The Chemistry of Solid-State Electronics: E. YABLONOVITCH
352 Fish as Model Systems: D. A. POWERS

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COVER *Wiwaxia corrugata*, one of the problematic fossils from the 530-million-year-old Middle Cambrian Burgess Shale of British Columbia. The covering of scales and spines was molted at intervals during growth and provided protection from the numerous predators in this remarkable soft-bodied fauna. See page 339. [Photograph by S. Conway Morris]

Research Articles

- 358 Stabilization of Z DNA in Vivo by Localized Supercoiling: A. R. RAHMOUNI AND R. D. WELLS

Reports

- 369 Inclusion Systems of Organic Molecules in Restacked Single-Layer Molybdenum Disulfide: W. M. R. DIVIGALPITIYA, R. F. FRINDT, S. R. MORRISON
- 371 Toward Protein Tertiary Structure Recognition by Means of Associative Memory Hamiltonians: M. S. FRIEDRICH AND P. G. WOLYNES
- 373 Styles of Volcanism on Venus: New Arecibo High Resolution Radar Data: D. B. CAMPBELL, J. W. HEAD, A. A. HINE, J. K. HARMON, D. A. SENSKE, P. C. FISHER
- 377 Movement Protein of Tobacco Mosaic Virus Modifies Plasmodesmatal Size Exclusion Limit: S. WOLF, C. M. DEOM, R. N. BEACHY, W. J. LUCAS
- 379 The Gene for Enhancer Binding Proteins E12/E47 Lies at the t(1;19) Breakpoint in Acute Leukemias: J. D. MELLENTIN, C. MURRE, T. A. DONLON, P. S. MCCAW, S. D. SMITH, A. J. CARROLL, M. E. McDONALD, D. BALTIMORE, M. L. CLEARY
- 382 A Role for a 70-Kilodalton Heat Shock Protein in Lysosomal Degradation of Intracellular Proteins: H.-L. CHIANG, S. R. TERLECKY, C. P. PLANT, J. F. DICE
- 385 The Neostriatal Mosaic: Striatal Patch-Matrix Organization Is Related to Cortical Lamination: C. R. GERFEN

Book Reviews

- 389 ROBERT S. MULLIKEN: Life of a Scientist, reviewed by E. R. DAVIDSON ■ Regulatory Peptides, I. M. D. JACKSON ■ Pelagic Snails, R. R. SEAPY ■ Evolution of Life Histories of Mammals, A. COCKBURN ■ Books Received

Products & Materials

- 397 Inexpensive GC/MS System ■ Implantable Blood Pressure Monitor ■ Videotape Displays Mapped Stream Flow ■ Centrifugal Device for DNA Sample Prep ■ Software for Protein Chemists ■ Abbreviations Turned into Paragraphs ■ Literature

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