This Week in Science

Clean Coal Technology

All-Women Conference: Did It Discriminate? A. GALLOWAY; C. H. KINSLEY

Epidermal Growth Factor: R. F. DOULTON; Zebrafish as Developmental Models: L. M. PAGE

Can Science Education be Saved? ■ The Reform Agenda: Emerging Consensus

Computer Security: NAS Sounds the Alarm

Publishing by—and for?—the Numbers

Biomedical Funds: IOM Strikes Back

Hubble Hubris: A Case of “Certified” Blindness

Briefings: Now Even Mummies Go Digital ■ AIDS Virus Target ■ Congress Hungry for NAS Advice ■ French Genome Project ■ Darwin Back on the Books ■ Primate Secret to Longevity ■ Domestic Math Ph.D.’s Hit All-Time Low ■ TV Attachment Inherited?

Large-Scale Sequencing Trials Begin

Did Cooler Heads Prevail?

Materials Jamboree: Buckyball Bash ■ A New Role for the STM ■ Lessons from Grass

Calculating the Original Family—of Exons

The Concept of Probability in Safety Assessments of Technological Systems: G. APOSTOLAKIS

Astrophysics from the Moon: B. F. BURKE

Spacing Differentiation in the Developing Drosophila Eye: A Fibrinogen-Related Lateral Inhibitor Encoded by scabrous: N. E. BAKER, M. MLODZIK, G. M. RUBIN

How Big Is the Universe of Exons?: R. L. DORIT, L. SCHOENBACH, W. GILBERT

A Possible Younger Dryas Record in Southeastern Alaska: D. R. ENGSTROM, B. C. S. HANSEN, H. E. WRIGHT, JR.

El Niño—Southern Oscillation Displacements of the Western Equatorial Pacific Warm Pool: M. J. MCPHADEN and J. PicaUT

Pre-Ceramic Occupations in the Orinoco River Valley: W. P. Barse


Realized Reproductive Success of Polygynous Red-Winged Blackbirds Revealed by DNA Markers: H. L. GIBBS, P. J. WEATHERHEAD, P. T. BOAG, B. N. WHITE, L. M. TABAK, D. J. HOYSAK

A Trans-Acting Factor That Binds to a GT-Motif in a Phytochrome Gene Promoter: K. DEHESH, W. B. BRUCE, P. H. QUAIL


Identification of a Specialized Adenyl Cyclase That May Mediate Odorant Detection: H. A. BAKALYAR and R. R. REED

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cover  Topics spanning the spectrum of physical, life, social sciences, and technology will be presented at the AAAS Annual Meeting, 14 to 19 February, in Washington, DC. A small sampling of slides from one of the more than 200 symposia, technical sessions, and workshops is depicted on the cover (courtesy of K. Dunlap and P. Brehm, D. E. Morse, and R. B. Silver, whose work will be presented at the symposium on "New Perspectives in Cellular Signaling"). The meeting will also include plenary lectures, a special seminar on the neurosciences, poster sessions, exhibits, short courses, and an employment exchange. For details, see page 1437.


1409  Detection of Radial Crossbridge Force by Lattice Spacing Changes in Intact Single Muscle Fibers: G. Ceccini, M. A. Bagni, P. J. Griffiths, C. C. Ashley, Y. Maeda


1413  gC3p9, a Calcium Ion− and Polyphosphoinositide-Regulated Actin Capping Protein: F.-X. Yu, P. A. Johnston, T. C. Södhof, H. L. Yin


1418  The Function of a Leader Peptide in Translocating Charged Amino Acyl Residues Across a Membrane: J. Rohrer and A. Kühn

1421  Efficient Incorporation of Human CD4 Protein into Avian Leukosis Virus Particles: J. A. T. Young, P. Bates, K. Willert, H. E. Varmus

1423  The Role of β2-Microglobulin in Peptide Binding by Class I Molecules: A. Vitiello, T. A. Potter, L. A. Sherman


Technical Comments


AAAS Meetings

1437  AAAS '91: The AAAS Annual Meeting, 14 to 19 February 1991 = Neuroscience Seminar = Employment Exchange

Book Reviews

1455  Arms and the Enlisted Woman, reviewed by P. A. Roos = The Story of Peking Man, P. A. Erickson = A Functional Biology of Clonal Animals, C. D. Harwell = Some Other Books of Interest = Reprints of Books Previously Reviewed = Books Received

Inside AAAS

1460  Epidemiologists Reported to Be On Verge of Profession's First Ethics Guidelines = Science Alert to Embargo Debate = Election Results for 1991 AAAS Officers

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