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Marine Sciences in the Coming Decades
C. Wunsch

NEWS & COMMENT

Genome Project Goes Commercial
NIH to Appeal Patent Decision

National Institutes of Health:
Gene Therapists Jump Ship...
...Top AIDS Official to Leave

UC Berkeley Embroiled in Computer Software Lawsuit

Wake-Up Call for Sleep Research

RESEARCH NEWS

New Superconductors: A Slow Dawn
HTS Film-Makers Look for a Happy Ending
Ceramic Superconductors, Warts and All
Carbon Monoxide: Killer to Brain
Messenger in One Step

A Stimulating New Approach to Cancer Treatment
Catalytic Conversion Could Be a Gas
Geneticists Trace the DNA Trail of the First Americans
Cyclic ADP–Ribose: A New Way to Control Calcium
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Far-Ultraviolet Astronomy on the Astro-1
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Fractal pattern formed by small particles floating on a fluid undergoing complicated motion. High particle density (yellow-blue) indicates regions of past compressive surface flow or downwelling. Low particle density (black-red) indicates past upwelling. The pattern geometrically summarizes the long-term, chaotic behavior of typical elements of the fluid surface; it is the strange attractor of a random dynamical system. See page 335. [Image: John C. Sommerer]

RESEARCH ARTICLE

Particles Floating on a Moving Fluid: A Dynamically Comprehensible Physical Fractal
J. C. Sommerer and E. Ott

REPORTS

A Mercury-Catalyzed, High-Yield System for the Oxidation of Methane to Methanol

Production of Syngas by Direct Catalytic Oxidation of Methane
D. A. Hickman and L. D. Schmidt

Single Crystal Metals Encapsulated in Carbon Nanoparticles
R. S. Ruoff, D. C. Lorents, B. Chan, R. Malhotra, S. Subramoney

Paleohydrology of Late Pleistocene Superfolding, Altay Mountains, Siberia
V. R. Baker, G. Benito, A. N. Rudoy

Why Does the Earth Spin Forward?
L. Dones and S. Tremaine

Mechanisms in the Competitive Success of an Invading Sexual Gecko over an Asexual Native
K. Petren, D. T. Bolger, T. J. Case

Two Open Complexes and a Requirement for Mg** to Open the λPr Transcription Start Site
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Molecular Mapping and Detoxification of the Lipid A Binding Site by Synthetic Peptides
A. Rustici, M. Velucchi, R. Faggioni, M. Sironi, P. Ghezzi, S. Quataert, B. Green, M. Porro

Sequence-Specific Binding of Transfer RNA by Glyceraldehyde-3-Phosphate Dehydrogenase
R. Singh and M. R. Green

Tumor Rejection After Direct Costimulation of CD8 + T Cells by B7-Transfected Melanoma Cells
S. E. Townsend and J. P. Allison

Cyclic ADP-Ribose in Insulin Secretion from Pancreatic β Cells
S. Takasawa, K. Nata, H. Yonekura, H. Okamoto

Blood-Brain Barrier Penetration and in Vivo Activity of an NGF Conjugate

Retinal Degeneration in Choroideremia: Deficiency of Rab Geranylgeranyl Transferase
M. C. Seabra, M. S. Brown, J. L. Goldstein

Carbon Monoxide: A Putative Neural Messenger
A. Verma, D. J. Hirsch, C. E. Glatt, G. V. Ronnett, S. H. Snyder

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Science 259 (5093), 289-392.

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