This Week in Science

Editorial

373 Frontiers in Chemistry: J. I. BRAUMAN

Letters


News & Comment

383 Sverdlovsk: Anthrax Capital ■ AIDS in the U.S.S.R.
385 Science Focuses on the Next Presidency
386 Whistle-Blowers: Air Cases at House Hearings
388 Briefing: Academy Opens Center in California ■ More NSF Fellowships ■ British and French Get Research Prescriptions ■ EPA Will Keep Old SO2 Rules ■ What's in an Acronym?

Research News

390 Cloud over Parkinson's Therapy ■ Ethical Issues Raised
393 No Longer Willful, Gaia Becomes Respectable ■ A Loop Between Plant and Cloud
396 On the Advantage of Being Different

Articles

Frontiers in Chemistry

415 Voltammetry with Microscopic Electrodes in New Domains: R. M. WIGHTMAN
426 The Interplay Between Chemistry and Biology in the Design of Enzymatic Catalysts: P. G. SCHULTZ
433 Probing Structure-Function Relations in Heme-Containing Oxygenases and Peroxidases: J. H. DAWSON
440 Intramolecular Long-Distance Electron Transfer in Organic Molecules: G. L. CLOSS AND J. R. MILLER
447 The Vibrational Spectroscopy and Dynamics of Weakly Bound Neutral Complexes: R. E. MILLER
460 Chemical Waves: J. ROSS, S. C. MÜLLER, C. VIDAL
The singular properties of the core region and the rotation center of the spiral wave in the Belousov-Zhabotinsky reaction are shown in three-dimensional perspective. The image was obtained by an overlay of a large number of single snapshots of spiral rotation covering three full revolutions. It presents the upper envelope of the concentration variation, that is the maximum level of oxidation of the catalyst ferroin reached at each point in space. The envelope is shown in arbitrary pseudo colors. See page 460. [S. C. Müller, Th. Plessen, and B. Hess, Max-Planck-Institut für Ernährungsforschologie, D-4600 Dortmund, Federal Republic of Germany]
240 (4851)

Science 240 (4851), 371-553.