LETTERS
Handicaps and Careers: N. S. Sharpless; Nitrosamines in Animal Feed: W. Lijinsky; The Effectiveness of NEPA: P. J. Culhane; R. A. Liroff; S. K. Fairfax ........................................ 1034

EDITORIAL
Margaret Mead .......................................................... 1043

ARTICLES
Radiological Impact of Airborne Effluents of Coal and Nuclear Plants: J. P. McBride et al. ........................................ 1045
Gene Amplification and Drug Resistance in Cultured Murine Cells: R. T. Schimke et al. ........................................ 1051
A Proposal to Modernize the American Antiquities Act: R. B. Collins and D. F. Green ........................................ 1055

NEWS AND COMMENT
A General as Arms Control Chief: Opera Buffa or Brilliant Stroke? .............. 1060
Voice from the Dead Names New Suspect for Piltdown Hoax ..................... 1062
Harvard, Science, and the Company of Educated Men and Women .......... 1063
Follow-up on the Budget ................................................................ 1064

RESEARCH NEWS
Restriction Enzymes: Prenatal Diagnosis of Genetic Disease. ..................... 1068
The 1978 Nobel Prize in Physiology or Medicine: S. Linn ......................... 1069

ANNUAL MEETING
Tours and Cultural Events .................................................................. 1072

BOOK REVIEWS
Social Standing in America, reviewed by L. A. Coser; Food Webs and Niche Space, S. L. Pimm; Mathematical Foundations of Quantum Theory,
### REPORTS

- **Solar Rotation Determined from Thomas Harriot's Sunspot Observations of 1611 to 1613**: R. B. Herr
- **Sieve Areas in Fossil Phloem**: E. L. Smoot and T. N. Taylor
- **Rapid Light-Induced Changes in Near Infrared Transmission of Rods in Bufo marinus**: H. H. Harary, J. E. Brown, L. H. Pinto
- **Mediterranean Water: An Intense Mesoscale Eddy off the Bahamas**: S. E. McDowell and H. T. Rossby
- **Kainic Acid Injections Result in Degeneration of Cochlear Nucleus Cells Innervated by the Auditory Nerve**: S. J. Bird et al.
- **Feedback Inhibition of Brain Noradrenaline Neurons by Tricyclic Antidepressants: α-Receptor Mediation**: T. H. Svensson and T. Usdin
- **Angiotensin Regulates Release and Synthesis of Serotonin in Brain**: V. E. Nahmod et al.
- **Halohydrocarbon Synthesis by Bromoperoxidase**: R. Theiler, J. C. Cook, L. P. Hager
- **Subsynaptic Plate Perforations: Changes with Age and Experience in the Rat**: W. T. Greenough, R. W. West, T. J. DeVieogd
- **Hippocampal Aging and Adrenocorticoids: Quantitative Correlations**: P. W. Landfield, J. C. Waymire, G. Lynch
- **Memory Impairment in Epileptic Patients: Selective Effects of Phenobarbital Concentration**: C. M. MacLeod, A. S. Dekaban, E. Hunt

### TECHNICAL COMMENTS

- **Controlled Clinical Trials**: D. W. Alling, M. Halperin, J. H. Ware; J. W. Takey

### PRODUCTS AND MATERIALS

- **Atomic Absorption Spectroscopy Lamps; Digital Thermometer; Modular Laboratory Computer; Modular Dry Bath; Sodium Electrode; Image Analyzer; Gel Permeation Chromatograph; Literature**

---

**COVER**

Page from Harriot's manuscript showing drawings of the sun numbered 41 through 44. The first observation is from his residence at Syon House, 6 February 1612 (Julian calendar, year beginning 1 January). The symbol following the date identifies the weekday as Thursday; the hour is 7 1/4. The subsequent three observations are from the London house of his close friend Sir Walter Raleigh. Harriot, elsewhere, has noted this to be 8 miles north and 4 1/4 miles west of Syon. See page 1079. [By permission of Lord Egremont and Leconfield, Petworth House, Sussex]