

like an algal cell, though it may have been a silicate residue.

Also, Celeste Engel treated an Orgueil meteorite sample from the Paris Museum with 48 percent hydrofluoric acid at about 80°C in a steam bath for about 8 hours. After a 2-hour and then a 4-hour treatment the hydrofluoric acid was washed from the sample and the sample was examined. After further treatment the remaining "crud" was mounted under a high-power microscope. I saw many outlines with apparently unresolved cell walls of about the sizes of the organized elements. They looked like small pellicles with the interiors destroyed. They were present in very great numbers—some six or ten in one field of the high-power microscope. It should be remembered that methods of preparing samples may make differences in the numbers observed. Also, it is by no means certain that all samples will contain precisely the same numbers. Under sufficiently rigorous conditions it is possible to destroy most varieties of organic matter. Engel worked carefully and secured some evidence of numerous objects in material where only small numbers had been detected previously. In this case the identity of the objects in the residue and of the organized elements was not established.

2. Nagy and Claus maintain that (a) and (c) are similar to each other but that (b) is not similar to the other two. Its spines extend inward from the wall, whereas the protuberances of (a) and (c) extend outward.
3. The diameters of the bodies were measured from outer wall to outer wall, exclusive of appendages. This is the micropaleontological and palynological convention for defining the size of spiny microorganisms.

Bibliography

- D. J. Bernal, *Nature* **193**, 1119 (1962).
M. H. Briggs, *Nature* **191**, 1137 (1961).
_____, and G. B. Kitto, *ibid.* **193**, 1119 (1962).
M. Calvin, *Chem. Eng. News* **39**, 96 (1961).
B. J. Cholnoky, *Umschau*, in press.
G. Claus and B. Nagy, *Nature* **192**, 594 (1961).
_____, *Phycol. Soc. Am. News Bull.* **15**, 15 (1962).
S. Cloëz, *Compt. Rend.* **58**, 986 (1864).
E. R. DuFresne and E. Anders, *Geochim. Cosmochim. Acta*, in press.
F. W. Fitch and E. Anders, *Ann. N.Y. Acad. Sci.*, in press.
F. W. Fitch, H. P. Schwarcz, E. Anders, *Nature* **193**, 1119 (1962).
S. W. Fox, *Science* **132**, 200 (1960).
_____, Paper presented at the symposium on extraterrestrial biochemistry and biology, AAAS meeting, Denver, 27 Dec. 1961, and at the New York Academy of Sciences, 30 Apr.-1 May 1962.
W. G. Meinschein, B. Nagy, D. J. Hennessy, *Science*, in press.
P. Morrison, *ibid.* **135**, 663 (1962).
B. Nagy, G. Claus, D. J. Hennessy, *Nature* **193**, 1119 (1962).
B. Nagy, W. G. Meinschein, D. J. Hennessy, *Ann. N.Y. Acad. Sci.* **93**, 25 (1961).
_____, *Geol. Soc. Am. Paper No.* **68** (1961), p. 237.
P. Palik, *Nature*, in press.
F. L. Staplin, *Micropaleontology* **8**, No. 3, 343 (1962).
H. C. Urey, *Nature* **193**, 1119 (1962).
R. P. Wodehouse, *Pollen Grains* (McGraw-Hill, New York, 1935).

Forthcoming Events

September

- 25-28. Electric Power Systems for Space, conf., Santa Monica, Calif. (American Rocket Soc., 500 Fifth Ave., New York 36)
- 26-27. Physics of Failure in Electronics, Chicago, Ill. (M. E. Goldberg, Armour Research Foundation, Illinois Inst. of Technology, 35 W. 33 St., Chicago 16)
- 26-28. Practice of Gas Chromatography, meeting, East Lansing, Mich. (C. G. Harriz, Houdry Process & Chemical Co., Box 427, Marcus Hook, Pa.)

26-29. Austrian Soc. of Biochemistry, Society for Physiological Chemistry, German Pharmacology Soc., Vienna, Austria. (Secretariat, Vienna Medical Acad., 4 Alserstr, Vienna IX)

27-28. Birth Defects, symp., Nashville, Tenn. (R. Batson, Vanderbilt Univ. School of Medicine, Nashville)

27-29. Protection of Plants and Extermination of Pests, symp., Magdeburg, Germany. (Chemische Gesellschaft in der D.D.R., Unter den Linden 68-70, Berlin W.8, Germany)

27-29. Society for General Microbiology, Reading, England. (SGM, c/o Inst. of Biology, 41 Queen's Gate, London, S.W.7, England)

28-29. Broadcast Symp., annual, Washington, D.C. (G. C. Wetmore, Collins Radio Co., 1825 Connecticut Ave., NW, Washington 9)

28-30. Medical Psychology, intern. colloquium, Brussels and Louvain, Belgium. (P. H. Davost, Société de Psychologie Médicale de Langue Française, 2 rue de Rohan, Rennes, France)

30-5. American Soc. for Testing Materials, Pacific area, Los Angeles, Calif. (Executive Secretary, ASTM, 1916 Race St., Philadelphia 3, Pa.)

30-6. Medical Hydrology and Climatology, intern. congr., Baden-Baden, Germany. (M. Fontan, c/o Faculté de Médecine, Lille, France)

October

1-3. Association of Medical Illustrators, annual, Detroit and Ann Arbor, Mich. (AMI, 1853 W. Polk St., Chicago 12, Ill.)

1-3. Communications, natl. symp., Utica, N.Y. (J. K. Webb, 489 Van Ellis Rd., Utica)

1-3. Plastics, intern. congr., Turin, Italy. (Segreteria, Congresso delle Materie Plastiche, Corso Galileo Ferraris 60, Turin)

1-4. American Oil Chemists Soc., Toronto, Canada (K. F. Mattil, Swift & Co., Packers and Exchange Aves., Chicago 9, Ill.)

1-4. Electroencephalographic Information, Marseilles, France. (R. Naquet, 23 rue de la Loge, Marseilles 2°)

1-4. Iron and Steel, intern., Luxembourg. (Secrétariat, c/o Centre National de Recherches Métallurgiques, Abbaye du Val-Benoit, Liège, Belgium)

1-4. Shell Structures, intern. conf., San Francisco, Calif. (A. C. Scordelis, Dept. of Civil Engineering, Univ. of California, Berkeley 4)

1-5. American Soc. of Tool and Manufacturing Engineers, Los Angeles, Calif. (R. M. Johnson, 3336 Stinson Blvd., Minneapolis 18, Minn.)

1-6. Food Standards, conf., Geneva, Switzerland. (Intern. Agency Liaison Branch, Office of the Director General, Food and Agriculture Organization, Viale delle Terme di Caracalla, Rome, Italy)

1-6. International Astronomical Union, symp. on site testing, Rome, Italy. (D. H. Sadler, c/o Royal Greenwich Observatory, Herstmonceux Castle, Hailsham, Sussex, England)

1-6. International Soc. of Photogrammetry, Milan, Italy. (A. L. Nowicki, c/o Army Map Service, 6009 Massachusetts Ave., NW, Washington, D.C.)

1-6. Malaria, conf., Manila, Philippines. (World Health Organization, Regional Office for the Western Pacific, P.O. Box 2932, Manila)

1-10. International Council for the Exploration of the Sea, Copenhagen, Denmark. (ICES, Charlottenlund Slot, Charlottenlund, Denmark)

2-4. Advanced Propulsion Concepts, Cincinnati, Ohio. (M. M. Slawsky, Air Force Office of Scientific Research, Washington, 25)

2-4. Batteries, intern. symp., Bournemouth, England. (D. H. Collins, Admiralty Engineering Laboratory, W. Drayton, Middlesex, England)

2-4. Fluid Amplification, symp., Washington, D.C. (by invitation only). (Public Information Officer, Diamond Ordnance Fuze Laboratories, Room 315, Bldg. 83, Washington 25)

2-4. Physics and Nondestructive Testing, symp., San Antonio, Tex. (D. L. Black, Southwest Research Inst., Box 2296, San Antonio)

2-4. Space Electronics and Telemetry, symp., Miami Beach, Fla. (O. A. Hoberg, Marshall Space Flight Center, M-ASTRI, I, Bldg. 4487-B, Huntsville, Ala.)

2-5. American Roentgen Ray Soc., Washington, D.C. (C. A. Good, Mayo Clinic, Rochester, Minn.)

2-5. Animal Care Panel, annual, Chicago, Ill. (R. J. Flynn, Argonne National Laboratory, Argonne, Ill.)

2-5. Human Engineering. Annual inst., Stamford, Conn. (J. H. Ely, Dunlap and Associates, 429 Atlantic St., Stamford)

2-5. Prophylactic Medicine and Social Hygiene, intern. congr., Bad Godesberg, Germany. (Kongressbüro, Postfach 864, Bad Godesberg)

2-8. Committee on Human Genetics, World Health Organization, Geneva, Switzerland. (WHO, Palais des Nations, Geneva)

2-9. Sanitary Engineers, seminar, Belgium. (World Health Organization, Regional Committee for Europe, 8 Scherfigsvej, Copenhagen Ø, Denmark)

3. California Acad. of Sciences, San Francisco. (S. W. Muller, CAS, Golden Gate Park, San Francisco)

3-5. International Union for Applied Ornithology, Frankfurt am Main, Germany. (S. Pfeifer, Institut für angewandte Vogelkunde, Steinauer Strasse 44, Frankfurt am Main-Fechenheim)

3-5. New Respiratory Disease Viruses, intern. conf., Bethesda, Md. (C. G. Loosli, Univ. of Southern California School of Medicine, 2025 Zonal Ave., Los Angeles)

3-6. Optical Soc. of America, Rochester, N.Y. (M. E. Warga, Executive Office, OSA, 1155 16 St., NW, Washington, D.C.)

4-5. International Soc. for Geomechanics, congr., Salzburg, Austria. (Landesverkehrsamt Salzburg, Mozartplatz 10/1, Salzburg)

4-5. International Soc. of Rock Mechanics, colloquium, Salzburg, Austria. (ISRM, Franz-Josef-Str. 3, Salzburg)

4-5. Solid Fuels, conf., Pittsburgh, Pa. (Society of Mining Engineers, Coal Div., 345 E. 47 St., New York 17)

5-7. Association of Cereal Research, milling conf., Detmold, Germany. (Arbeitsgemeinschaft Getreideforschung, Am Schützenberg 9, Detmold)

5-7. Intercollegiate Geological Conf., Montreal, Quebec, Canada. (T. H. Clark, Dept. of Geological Sciences, McGill Univ., Montreal)

5-10. Moorland Research, intern. congr., Bremen, Germany. (Internationale Gesellschaft für Moorforschung, Hauptstr. 26, Vaduz, Liechtenstein)

6-7. American Acad. of Psychotherapists, annual conf., Chicago, Ill. (A. Ellis, Parc Vendome, 333 W. 56 St., New York 19)

6-7. Parathyroid Insufficiency and Chronic Tetany, intern. symp., Paris, France. (H. P. Klotz, Hôpital Bichat, 170 Boulevard Ney, Paris 18^e)

6-12. Electronic Computers in Civil Engineering, symp., Lisbon, Portugal. (M. Rocha, Laboratório Nacional de Engenharia Civil, Av. do Brasil, Lisbon)

7-9. Neurology and Neurological Sciences, congr., Tokyo, Japan. (Japanese Organizing Committee, c/o 3rd Dept. of Internal Medicine, Faculty of Medicine, University of Tokyo, Hongo, Tokyo)

7-10. Process Engineers, annual, Mainz, Germany. (Verfahrenstechnische Gesellschaft, Verein Deutscher Ingenieure, Rheingau-Allee 25, Frankfurt am Main, Germany)

7-10. Society of Petroleum Engineers, Los Angeles, Calif. (SPE, 345 E. 47 St., New York 17)

7-13. Cardiology, intern. congr., Mexico City, Mexico. (I. Costero, Instituto Nacional de Cardiología, Ave. Cuauhtemoc 300, Mexico 7, D.F.)

8-10. Electronics, natl. conf., Chicago, Ill. (National Electronics Conf., 228 N. La Salle St., Chicago 1)

8-11. Allergy, congr., Basel, Switzerland. (R. Schuppli, c/o Dermatologische Universitäts-Klinik, Basel)

8-11. Infectious Pathology, intern. congr., Bucharest, Rumania. (N. Cajal, Str. Dumbrava, Rossie 23, Bucharest)

8-11. Otorhinolaryngology, congr., Paris, France. (H. Guillon, French Soc. of Otorhinolaryngology, 6 Avenue Mac-Mahon, Paris 17^e)

8-11. Water Pollution Control Federation, annual, Toronto, Canada. (R. E. Fuhrman, Executive Secretary, WPCF, 4435 Wisconsin Ave., NW, Washington 16, D.C.)

8-12. American Soc. of Civil Engineers, Detroit, Mich. (W. H. Wisely, 345 E. 47 St., New York 17)

8-12. Industrial Forestry, seminar, St. Paul, Minn. (Z. W. White, Yale School of Forestry, 205 Prospect St., New Haven 11, Conn.)

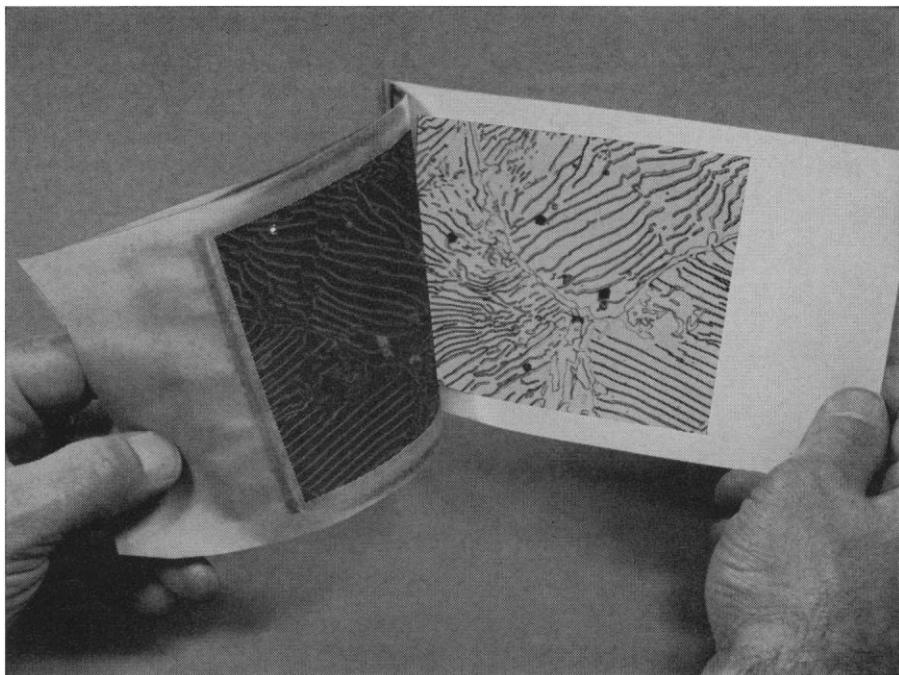
8-12. Instruments and Research Equipment, symp. and exhibit, Bethesda, Md. (L. Heiss, American Instrument Co., Inc., 8030 Georgia Ave., Silver Spring, Md.)

8-12. Lead and Radiation Shielding Problems, intern. conf., London, England. (J. Oldroyd, Lead Development Assoc., 34 Berkeley Square, London, W.1)

8-13. Treatment and Storage of High-Level Radioactive Wastes, symp., Vienna, Austria. (Intern. Atomic Energy Agency, 11 Kärntner Ring, Vienna 1)

8-20. Statistical Forecasting, training seminar, Paris, France. (World Meteorological Organization, 41 Avenue Giuseppe Motta, Geneva, Switzerland)

9-11. Analytical Chemistry in Nuclear



Get sharp photomicrographs like this in 10 seconds

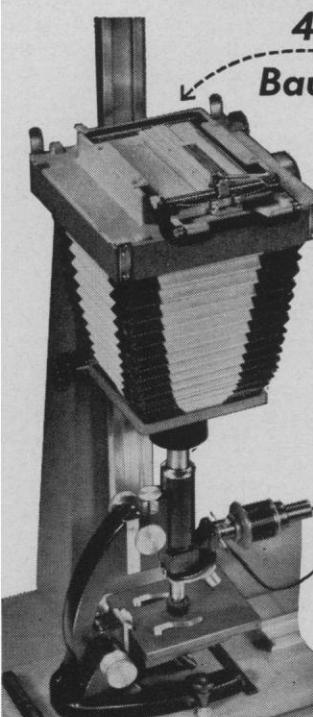
Just add this Polaroid Land

4 x 5 Film Holder to your

Bausch & Lomb L Camera

Now you can take advantage of the fast new Polaroid Land films—with A. S. A. speeds up to 3200!—with high resolution and contrast for critical image quality. Focus the B&L Dynoptic Metallurgical Microscope on any opaque specimen, with your choice of bright field, dark field or polarized light. Adjust the 30" bellows of the B&L Model L Camera to whatever power you need. Then use the Polaroid Land Film Holder and B&L 4 x 5 Plain Back to see permanent photomicrographs, in crisp vivid detail, in just 10 seconds. Find out more about the big savings of time and money. Just mail the coupon.

"Polaroid"® by Polaroid Corporation



BAUSCH & LOMB 

I'd like a demonstration of the B&L Model L Camera with Polaroid Land Film Holder.

Please send Catalogs E-21, E-22, D-1053.

Name

Firm or School

Address

See it in B&L Booth 83 at the AIBS Meeting, Oregon State University, August 26-31.

Reactor Technology, Gatlinburg, Tenn. (C. D. Susano, Oak Ridge Natl. Laboratory, P.O. Box X, Oak Ridge, Tenn.)

9-11. International Assoc. of Food Analysts, symp., Bordeaux, France. (L. de Saint Rat, 18 Avenue de Villars, Paris 7^e, France)

9-11. Nuclear Reactor Chemistry, conf., Gatlinburg, Tenn. (W. R. Grimes, Oak Ridge Natl. Laboratory, P.O. Box X, Oak Ridge, Tenn.)

9-12. American Dietetic Assoc., annual, Miami Beach, Fla. (V. F. Harger, Dept. of Home Economics, Ohio State Univ., Columbus 10)

9-12. Scientific Soc. for Aviation, an-

nual, Brunswick, Germany. (Wissenschaftliche Gesellschaft für Luftfahrt, Martinstr. 40-42, Cologne, Germany)

10-12. Comparative Medicine, intern. symp., New York, N.Y. (J. D. Bech, Animal Medical Center, 350 Lafayette St., New York 12)

12. Biochemical Aspects of Hormone Action, symp., St. Louis, Mo. (A. B. Eisenstein, Jewish Hospital of St. Louis, 216 S. Kingshighway Blvd., St. Louis 10)

12-13. American Medical Writers' Assoc., Washington, D.C. (S. O. Waife, P.O. Box 1796, Indianapolis 6, Ind.)

12-14. Phosphorylated Glucides, intern. symp., Milan, Italy. (Segreteria del

Comitato Organizzatore del Symposium Internazionale sui Glucidi Fosforilati, Via Modica 6, Milano)

13. Metabolic and Structural Alterations in Pre-Diabetes, symp., New York, N.Y. (R. Levine, New York Diabetes Assoc., 104 E. 40 St., New York 16)

13-14. Fundamental Nature of Living Matter, symp., Cleveland, Ohio. (Dedication Committee Office, Allen Memorial Library, 11000 Euclid Ave., Cleveland 6)

13-14. International Federation of Surgical Colleges, annual, Atlantic City, N.J. (I. S. Ravdin, American College of Surgeons, 3400 Spruce St., Philadelphia 4, Pa.)

13-14. Society for Psychophysiological Research, annual, Denver, Colo. (S. G. Margolin, Dept. of Psychophysiology, Univ. of Colorado, Denver 20)

13-21. Electronics Telecommunications, Automation, and Nucleonics, intern. fair, Ljubljana, Yugoslavia. (Gospodarsko Razstavnišče, Ljubljana)

14-17. Electrical Insulation, conf., Hershey, Pa. (L. J. Frisco, Div. of Engineering and Industrial Research, Natl. Acad. of Sciences, 2101 Constitution Ave., Washington 25)

14-19. Dentistry Teaching, seminar, Bogota, Colombia. (Pan American Sanitary Bureau, Washington 6)

14-19. Pulp and Paper Engineering, conf., Montreal, Canada. (Technical Assoc. of the Pulp and Paper Industry, 360 Lexington Ave., New York 17)

15-17. Association of Official Agricultural Chemists, annual, Washington, D.C. (W. Horwitz, Box 540, Benjamin Franklin Station, Washington 4)

15-17. Materials Handling, conf., Cincinnati, Ohio. (American Soc. of Mechanical Engineers, 29 W. 39 St., New York 18)

15-17. Selection Problems in Plastics, Amsterdam, Netherlands. (Secretariate, Tesselshadestraat 5, Amsterdam W.)

15-17. Specialists on Antisubmarine Warfare, natl. symp., Boston, Mass. (classified secret). (T. Nussdorfer, Geophysics Corp. of America, Bedford, Mass., or Institute of the Aerospace Sciences, 2 E. 64 St., New York 21)

15-18. American Meteorological Soc., natl., New York, N.Y. (AMS, 45 Beacon St., Boston 8, Mass.)

15-18. Danube Research, intern. symp., Bratislava, Czechoslovakia. (L. Kneppo, Slovak Acad. of Sciences, Ul. Obrancov Mieru 41, Bratislava)

15-18. Instrument-Automation, conf. and exhibit, New York, N.Y. (Meetings Manager, Instrument Soc. of America, Penn-Sheraton Hotel, Pittsburgh 19, Pa.)

15-18. Space Phenomena and Measurement, intern. symp., Detroit, Mich. (H. E. DeBolt, AVCO Corp., 201 Lowell St., Wilmington, Mass.)

15-19. American College of Surgeons, annual clinical congr., Atlantic City, N.J. (ACS, 40 Erie St., Chicago 11, Ill.)

15-19. American Public Health Assoc., annual, Miami Beach, Fla. (APHA, 1790 Broadway, New York, N.Y.)

15-19. Diagnosis and Treatment of Radioactive Poisoning, Vienna, Austria. (World Health Organization, Palais des Nations, Geneva, Switzerland)

(See issue of 10 August for comprehensive list)

CONTROL WITH CONFIDENCE

Hyland Clinical Chemistry Control Serums are useful as CONTROLS, run in parallel with unknowns as checks on equipment, reagents and technic, or as STANDARDS to calibrate equipment and standardize reagents. Prepared from freshly drawn human blood, they have the same natural constituents as your specimens. Freeze-dried for stability, they are prepared for use simply by the addition of distilled water. After reconstitution they remain stable for five days (except for glucose) when stored under refrigeration.

Normal Clinical Chemistry Control Serum: 5 ml vials, box of 6 vials (list no. 45-030) at \$9.00. Abnormal Clinical Chemistry Control Serum: 5 ml vials, box of 6 vials (list no. 45-015) at \$9.00. Supplemental Clinical Chemistry Control Serum: 5 ml vials, box of 3 vials (list no. 45-040) at \$5.50.

HYLAND LABORATORIES

4501 Colorado Blvd., Los Angeles 39, Calif.

Branch Office: 160 Lockwood Ave., Yonkers, N.Y.



PROVIDING NORMAL VALUES FOR:	PROVIDING ELEVATED VALUES FOR:	PROVIDING VALUES FOR:
Albumin	*Amylase	Butanol-extractable Iodine
Calcium	*Alkaline Phosphatase	Cholesterol Esters
Chloride	Bilirubin	Cholinesterase
Cholesterol	Calcium	Electrophoresis
Creatinine	Chloride	Iron
Globulin	Creatinine	Iron Binding Capacity
Glucose	Glucose	Lipid, total
Non-protein Nitrogen	*Lactic Dehydrogenase	Magnesium
Phosphorus, inorganic	Non-protein Nitrogen	Phospholipid
Potassium	Phosphorus, inorganic	
Protein-bound Iodine	Potassium	
Protein, Total	Protein-bound Iodine	
Sodium	Sodium	
*Transaminase (SGO-T)	*Transaminase (SGO-T)	
Urea Nitrogen	Urea Nitrogen	
Uric Acid	Uric Acid	

* Values for these components represent actual enzyme activity.