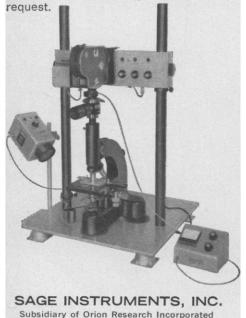
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230 Ferris Ave., White Plains, N.Y. 10603 914 949-4121 Circle No. 87 on Readers' Service Card the relevant plant chemistry. The operation of the sensory systems involved is becoming increasingly clear as a result of electrophysiological studies. The stimuli that shape feeding are predominantly gustatory and olfactory. The best understood case is that of Cruciferae-feeders. New evidence indicates that marked modification of innate feeding behavior can be brought about by experience.

The chemoreceptors of insects which feed on specific host plants have been studied electrophysiologically by a number of workers (F. Hanson, University of Texas, Austin). As shown by Schoonhoven, some insects have receptors sensitive to phagostimulants which are secondary plant substances. However, no evidence of such was found in Bombyx mori by Ishikawa and co-workers; the receptors appear to be stimulated only by nutrients. Recent electrophysiological evidence indicates that the larvae of Manduca sexta, the tobacco hornworm, detects volatile secondary plant substances by way of antennal receptors, but may not require specific gustatory phagostimulants other than nutrients.

Antennae of the fruit-piercing moth, Oraesia excavata, gave very similar EAG responses to their food attractants and to their repellents (M. Yamada, Nagoya University). Single olfactory receptor cells of this species responded to both materials with an increase in impulse frequency. The single unit activity was extracellularly recorded from the brain of the American cockroach, Periplaneta americana. The crude extract of the sex attractant from the female elicited an electrical response from extremely specialized neurons in the brain of the male and female of this species. Many other odorous substances did not excite these neurons.

The papers presented at this seminar will be published early in 1969 by Academic Press, Inc. We recognize the criticism that such symposium volumes are often outdated by the time they are published. Therefore, we have elected to update these articles as of 1 July 1968.

DAVID L. WOOD

Department of Entomology and Parasitology, University of California, Berkeley

ROBERT M. SILVERSTEIN
Stanford Research Institute,
Menlo Park, California

MINORU NAKAJIMA

Faculty of Agriculture, Kyoto University, Japan

Calendar of Events

May

- 2-3. Laser, 2nd conf., New York, N.Y. (L. Goldman, Laser Lab., Children's Hospital Research Foundation, Elland Ave. and Bethesda, Cincinnati, Ohio 45229)
- 2-3. Soc. for **Pediatric Research**, Atlantic City, N.J. (R. E. Greenberg, Dept. of Pediatrics, Stanford Medical Center, Stanford, Calif. 94305)
- 2-3. American Assoc. of University Professors, Minneapolis, Minn. (B. H. Davis, The Association, 1785 Massachusetts Ave, NW, Washington, D.C. 20036)
- 2-4. Soc. of **Biological Psychiatry**, Miami Beach, Fla. (G. N. Thompson, 2010 Wilshire Blvd. Los Angeles, Calif. 90057)
- 2-4. Wisconsin Acad. of Sciences, Arts and Letters, Whitewater, Wis. (W. Sarles, Dept. of Bacteriology, Univ. of Wisconsin, Madison 53706)
- 2-5. American **Psychoanalytic** Assoc., Miami Beach, Fla. (H. Fisher, 1 E. 57 St., New York 10022)
- 3. American Soc. for Clinical Nutrition, Atlantic City, N.J. (A. B. Eisenstein, 818 S. Meramec Ave., St. Louis, Mo. 63105)
- 3. American College of **Psychiatrists**, Bal Harbour, Fla. (M. Sabshin, P.O. Box 6998, Chicago, Ill. 60680)
- 3-8. American Ceramic Soc., 71st., Washington, D.C. (Technical Mtgs. Information Service, 79 Drumlin Rd., Newton Centre, Mass. 02159)
- 4-5. American Soc. for Clinical Investigation, Atlantic City, N.J. (D. H. Nelson, Latter-Day Saints Hospital, Salt Lake City, Utah 84103)
- 4-6. American Soc. for Adolescent Psychiatry, Miami Beach, Fla. (H. D. Staples, 24 Green Valley Rd., Wallingford, Pa. 19086)
- 4-7. American Inst. of Chemical Engineers, 65th natl. mtg., Cleveland Ohio. (The Institute, 345 E. 47 St., New York 10017)
- 4-7. American Mining Congr., Pittsburgh, Pa. (The Congress, 1100 Ring Building, Washington, D.C. 20036)
- 4-8. American Soc. of **Brewing Chemists**, Baltimore, Md. (Executive Secretary, The Society, 501 N. Walnut St., Madison, Wis.)
- 4-8. Soc. of **Plastics Engineers**, 27th, Chicago, Ill. (Director, Member Activities, The Society, 65 Prospect St., Stamford, Conn.
- 4-9. Electrochemical Soc., New York, N.Y. (The Society, 30 E. 42 St., New York 10017)
- 5. Aerospace Dynamic Balancing, 2nd symp., San Francisco, Calif. (Technical Mtgs. Information Service, 79 Drumlin Rd., Newton Centre, Mass. 02159)
- 5-6. Theory of Computing Symp., Marina del Ray, Calif. (Technical Mtgs. Information Service, 79 Drumlin Rd., Newton Centre, Mass. 02159)
- 5-7. Instrumentation Soc. of America, Aerospace Instrumentation Symp., Las Vegas, Nev. (Technical Mtgs. Information Service, 79 Drumlin Rd., Newton Centre, Mass. 02159)
 - 5-7. American Gynecological Soc., New

Orleans, La. (D. J. Lund, Univ. of Rochester Medical Center, 260 Crittenden Blvd., Rochester, N.Y. 14620)

Blvd., Rochester, N.Y. 14620)
5-7. Practical Applications of Radioisotopes to Industry, Pullman, Wash. (R.
M. Chatters, Washington State Univ.,
Pullman 99163)

5-8. Society of Aeronautical Weight Engineers, 28th, San Francisco, Calif. (Technical Mtgs. Information Service, 79 Drumlin Rd., Newton Centre, Mass. 02159)

5-8. Aerospace Medical Assoc., 40th, San Francisco, Calif. (Technical Mtgs. Information Service, 79 Drumlin Rd., Newton Centre. Mass. 02159)

Newton Centre, Mass. 02159)
5-8. Metal Powder Industrial Federation and American Powder Metallurgy, Inst., 25th, New York, N.Y. (P. K. Johnson, Metal Powder Industries Federation, 201 E. 42 St., New York 10017)

5-8. Radiation Biology of the Fetal and Juvenile Mammal Symp., Richland, Wash. (M. R. Sikov, Biology Dept., Battelle-Northwest, P.O. Box 999, Richland 99352)

5-9. American **Psychiatric** Assoc., 125th, Bal Harbour, Fla. (Public Information Officer, 1700 18th St., NW, Washington, D.C. 20009)

6-7. Conference on Waste Management and Disposal for the Food Processing Industry, University Park, Pa. (J. O. Keller Conf. Center, Pennsylvania State Univ., University Park 16802)

6-8. Frequency Control Symp., Atlantic City, N.J. (Director, Electronic Compo-

nents Lab., U.S. Army Electronics Command, Fort Monmouth, N.J. 07703)

6-8. Industrial Waste Conf., Lafayette, Ind. (D. E. Bloodgood, Sanitary Engineering, Purdue Univ., Lafayette 47907)

6-8. Microfilm Assoc., 18th natl., Boston, Mass. (Technical Mtgs. Information Service, 79 Drumlin Rd., Newton Centre, Mass. 02159)

7-9. American Assoc. of Genito-Urinary Surgeons, Pebble Beach, Calif. (H. M. Spence, 4105 Live Oak St., Dallas, Tex. 75221)

7-10. American Assoc. for Child Care in Hospitals, Ann Arbor, Mich. (D. E. Lidgard, University Hospital, Univ. of Michigan Medical Center, Ann Arbor 48104)

7-10. Association of University Radiologists, San Francisco, Calif. (A. Gottschalk, 950 E. 59 St., Chicago, Ill. 60037)

8-10. Breast Cancer, natl. conf., Washington, D.C. (R. N. Grant, The Conference, 219 E. 42 St., New York 10017)

8-10. American Assoc. for the **History** of Medicine, Baltimore, Md. (C. W. Bodemer, Biomedical History Dept., Univ. of Washington Medical School, Seattle 98105)

8-9. Military History, 3rd symp., U.S. Air Force Academy, Colo. (Lt. Col. W. Geffen, Dept. of History, U.S. Air Force Academy, Colo. 80840)

9-10. Arthritis Seminar, Roanoke, Va. (R. H. Brumfield, Jr., P.O. Box 1531, Roanoke, 24007)

9-10. American Natl. Red Cross, 2nd

research symp., Washington, D.C. (G. A. Jamieson, American Natl. Red Cross, Washington, D.C. 20006)

11-14. Fluid Controls Inst., Inc., Sea Island, Ga. (P.O. Box 1485, Pompano Beach, Fla. 33061)

11-15. Institute of Food Technologists, 29th, Chicago, Ill. (C. L. Willey, 221 N. Lasalle St., Chicago 60601)

12-14. American Soc. for Gastrointestinal Endoscopy, Washington, D.C. (V. M. Smith, 301 St. Paul Pl., Baltimore, Md. 21202)

12-14. Workshop on Computer Stimulation of Microbial Processes, Clemson, S.C. (Office of Industrial and Municipal Relations, College of Engineering, 109 Riggs Hall, Clemson 29631)

12-15. Seminar on Physical and Chemical Properties of Woodpulp Fibers, Appleton, Wis. (Technical Assoc. of the Pulp and Paper Industry, 360 Lexington Ave., New York, N.Y.)

12-15. Mid-America Symp. on Spectroscopy, 20th, Chicago, Ill. (Illinois Inst. of Technology Research Inst., 10 W. 35 St., Chicago, 60616)

12-15. American Urological Assoc., Inc., San Francisco, Calif. (W. P. Didusch, 1120 N. Charles St., Baltimore, Md.)

1120 N. Charles St., Baltimore, Md.)
12-16. American Industrial Hygiene
Conf., Denver, Colo. (The Association,
14125 Prevost, Detroit, Mich. 48227)

12-16. Soc. of Photographic Scientists and Engineers, Los Angeles, Calif. (The Society, 1330 Massachusetts Ave., NW, Washington, D.C. 20005)

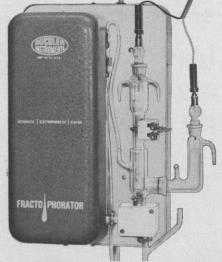
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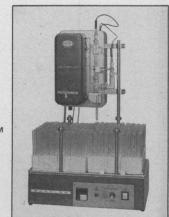


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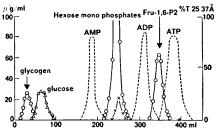
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12-17. American Assoc. on Mental Deficiency, San Francisco, Calif. (J. J. Noone, 5201 Connecticut Ave., NW, Washington, D.C. 20015)

13-16. Society for Experimental Stress

13-16. Society for Experimental Stress Analysis, Philadelphia, Pa. (P. Monchamp, 21 Bridge Sq., Westport, Conn. 06880)

14-16. Spring Joint Computer Conf., Boston, Mass. (A. Levine, 105 Newbury St., Boston 02116)

14-16. American Helicopter Soc., 25th, natl. forum, Washington, D.C. (Technical Mtgs. Information Service, 79 Drumlin Rd., Newton Centre, Mass. 02159)

14-17. American Gastroenterological Assoc., Washington, D.C. (D. Cayer, 2240 Cloverdale Ave., Winston-Salem, N.C. 27103)

14-17. Society of Technical Writers and Publishers, 16th, Washington, D.C. (C. T. Youngblood, Suite 421, 1010 Vermont Ave., NW, Washington, D.C. 20005)

15-16. Southern **Textile Research** Conf., Hilton Head Island, S.C. (G. F. Walz, Proximity Print Works, Greensboro, N.C. 27405)

16. Symp. on Oil Pollution of the Sea, Cambridge, Mass. (J. A. Fay, Room 30246, Massachusetts Inst. of Technology, Cambridge 02139)

16-17. Nature and Function of Peroxisomes, New York, N.Y. (J. F. Hoff, Dept. of Chemistry, Queens College, Flushing, N.Y. 11367)

18-19. Council of **Biology Editors**, Cambridge, Mass. (R. E. Gordon, Dean's Office, College of Science, Univ. of Notre Dame, Notre Dame, Ind. 46556)

18-21. Institute of Electronic and Electrical Engineers **Power Industry Computer Applications** Conf., Denver, Colo. (Technical Mtgs. Information Service, 79 Drumlin Rd., Newton Centre, Mass. 02159)

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18-21. Radiation Research Soc., 17th,
Cincinnati, Ohio. (F. Smith, Biology Dept.
American Univ., Washington, D.C. 20016)

18-21. American Thoracic Soc., Miami Beach, Fla. (Executive Secretary, 1790 Broadway, New York 10019)

18-22. National Tuberculosis Assoc., 65th, Miami Beach, Fla. (J. E. Perkins, 1790 Broadway, New York 10019)

18-23. Conf. on Mass Spectrometry and Applied Topics, 17th, Dallas, Tex. (J. M. McCrea, c/o Applied Research Lab., U.S. Steel Corp., Monroeville, Pa. 15146)

19-20. Rolamite Technology Seminar, Chicago, Ill. (J. Weidman, III, Director of Public Relations, Hamilton Watch Co., Lancaster, Pa. 17604)

19-21. Aerospace Electronics Conf., Dayton, Ohio. (Technical Mtgs. Information Service, 79 Drumlin Rd., Newton Centre, Mass. 02159)

19-21. Interdisciplinary Conf., 1st, Houston, Tex. (M. A. Wright, Humble Oil and Refining Company, Box 2180, Houston 77001)

19-21. New Dimensions in Legal and Ethical Concepts for Human Research, New York, N.Y. (I. Ladimer, Mt. Sinai Medical School, Fifth Ave. and 100 St., New York 10029)

19-23. Western Anesthesiology Conf., Salt Lake City, Utah. (J. Stringham, 11 S. 5th E., Salt Lake City 84106)

19-30. Selected Applications of Computers in Engineering, Ann Arbor, Mich.

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19-30. Numerical Methods, Optimization Techniques, and Process Simulation for Engineeers, Ann Arbor, Mich. (Engineers Summer Conf., Univ. of Michigan, Chrysler Center, Dept. 58, Ann Arbor 48105)

20. Association for the Advancement of Psychoanalysis, New York, N.Y. (M. Lee, Public Relations Committee, The Association, 329 E. 62 St., New York 10021)

21-23. Symp. on Electron, Ion, and Laser Beam Technology, Gaithersburg, Md. (L. Marton, Natl. Bureau of Standards, Washington, D.C. 20234)
21-24. Acute Medicine, 3rd symp.,

Pittsburgh, Pa. (Postgraduate Medical Program, Univ. of Pittsburgh, 1188 Scaife

Hall, Pittsburgh 15213)
22-23. IEEE Workshop on Applied
Magnetics, Washington, D.C. (Technical
Mtgs. Information Service, 79 Drumlin Rd., Newton Centre, Mass. 02159)

22-23. Diseases in Nature Transmissible to Man, 19th southwestern conf., San Antonio, Tex. (S. S. Kalter, P.O. Box 2296, San Antonio 78206)

24-26. National Tuberculosis and Respiratory Disease Assoc., Miami Beach, Fla. (J. E. Perkins, The Association, 1740 Broadway, New York 10019)

25-27. Drug Information Assoc., Detroit, Mich. (J. J. Harris, Public and Professional Relations Committee, c/o Schering Labs, 1011 Morris Ave., Union, N.J.

25-29. National Conf. on Social Welfare, 96th, New York, N.Y. (B. B. Shepherd, The Conference, 22 West Gay St., Columbus, Ohio 43215)

26-27. Rheumatoid Factors, New York, N.Y. (H. Bartfeld, St. Vincent's Hospital, 153 W. 11 St., New York 10011)

26-28. Symp. on Advances in Instrumentation for Air Pollution Control, Cincinnati, Ohio. (A. P. Altshuller, Natl. Air Pollution Control Administration, 5710 Wooster Pike, Cincinnati 45227)

26-28. IEEE Conf. on Laser Engineering and Applications, Washington, D.C. (Technical Mtgs. Information Service, 79 Drumlin Rd., Newton Centre, Mass. 02159)

26-28. Advanced Marine Vehicle and Propulsion Mtg., Seattle, Wash. (Technical Mtgs. Information Service, 79 Drum-

lin Rd., Newton Centre, Mass. 02159)
26-28. American **Ophthalmological**Soc., Hot Springs, Va. (S. D. McPherson, Jr., 1110 W. Main St., Durham, N.C. 27701)

29-1. Congress on Medical and Related Aspects of Motor Vehicle Accidents, New York, N.Y. (Secretariat, Internatl. Assoc. for Accident and Traffic Medicine, 520 First Ave., New York 10016)

International and Foreign Meetings

May

11-18. International Exhibition on Diagnostics, Munich, Germany. (Munchener Messe-und Ausstellungs-Gesellschaft MBH, Theresienhohe 13, 8 Munich 12)

15-18. International Revolving-Shutter Products Fair, Stuttgart, Germany. (Stutt-



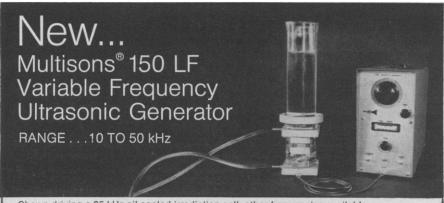
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26-30. Spectroscopy, 15th intern. colloquium, Madrid, Spain. (Secretary, XV Colloquium Spectroscopium Internationale, Serrano 119, Madrid 6)

27-31. International Assoc. of Thalassotherapy, 14th, Eforie Nord, Roumania. (Prof. Binculescu, Strada Transilvaniei 47, Bucharest, Roumania)

27-1. German Congr. for Medical Continuation Studies, 18th, Berlin. (Kongressgesellschaft fur Artliche Fortbildung, Klingsortstr. 21, Berlin 41)

28-7. Pro Aqua Congr., 4th, Basel, Switzerland. (O. Jaag, % Secretariat Pro Aqua, Basel 21)

29-3. International Assoc. for Accident and Traffic Medicine, 3rd, New York, N.Y. (M. Helpern, % Office of Chief Medical Examiner, 520 First Ave., New York 10016)

29-19. General Assembly of Pan-American Inst. of Geography and History, Washington, D.C. (C. A. Forray Rojas, Ex-Arzobispado 29, Mexico, D.F. Mexico)

June

1-12. Symposium on Non-Destructive Testing of Concrete and Timber, London, England. (Institution of Civil Engineers, Great George St., London, S.W.1)

2-6. International Symp. on Yeasts, Delft and The Hague, Netherlands. (L. Rodrigues de Miranda, Organizing Committee, Julianalaan 67A, Delft)

3-13. International Conf. on Arid Lands in a Changing World, Tucson, Ariz. (International Arid Lands Conf., % Dept. of Geochronology, Univ. of Arizona, Tucson 85721)

4-6. Automated Analysis, intern. congr., Chicago, Ill. (J. E. Golin, Technicon Corp., Ardsley, N.Y. 10502)

4-7. Union of Textile Chemists and Colorists, 21st congr., Baden-Baden, Germany. (The Union, Rohsbacherstr. 78, Heidelberg, Germany)

5. European Federation of International College of Surgeons, London, England. (F. P. Fitzgerald, 129 Harley St., London, W.1)

5-7. Mineralogical Assoc. of Canada, Montreal, P.Q. (J. Beland, Dept. of Geology, Univ. of Montreal, Montreal)

5-11. Forensic Sciences, 5th intern., Toronto, Ont., Canada. (L. Ball, Center of Forensic Sciences, Dept. of Attorney General, 8 Jarvis Street, Toronto 2)

6-9. Canadian **Pediatric** Soc., Montreal, P.Q. (J. H. V., Marchessault, 14 Green Ave., St. Lambert, Quebec City, P.Q.)

8-14. Canadian Medical Assoc., 102nd, Toronto, Ont., Canada. (The Association, 170 St. George Street, Toronto, Canada)

9-11. International Communications Conf., Boulder, Colo. (M. Nesenbergs, Environmental Science Services Administration, Inst. for Telecommunication Sciences, R614, Boulder 80302)

9-12. International Food Congr. and Exhibition, 7th, Madrid, Spain. (L. Naranon, % Federacion Nacional de Almacenistas de Alimentacion, Paseo del Prado 18 20 Planto II Modrid)

18-20, Planta 11, Madrid)
9-13. Clean Air Congr. and Exhibition,
Dusseldorf, Germany. (V. Deutscher, Postfach 1139, 4 Dusseldorf 1)