For nuclear detection, too ... it's what's up front that counts!*

Your nuclear detection, monitoring and measurement systems deserve dependable detectors. There's no need to settle for stagnant, unprogressive or Johnny-come-lately brands. Reliable and progressivelyimproved halogen or organically quenched Geiger-Mueller tubes (both ANTON & EON types) are available from stock or continuous production at EON.

Nicholas G. Anton, President and Director of Research, invites you to send for the EON Catalog and data sheets, which provide fundamental information about nuclear detectors and general "counting" problems.

Terms — Net 30 FOB our plant — Quantity discounts available

*With apologies to Winston cigarets, we are referring to (1) G-M tubes and (2) EON & ANTON BRANDS — front-runners in development and production of detectors for more than 20 years.

EON CORPORATION BROOKLYN, N.Y. 1

Typical EON nuclear "work horses," used in most survey meters:







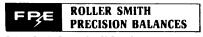
6201 T \$55.00 ea.

EON CORPORATION • 175 PEARL STREET BROOKLYN, N.Y. 11201 • PHONE: 212-858-0250

Value is a balance by Roller-Smith



The LG0500MG is the result of over 50 years' experience in the precision balance field. And just one of 45 models made by Roller-Smith, ranging from 3 mg. to 50 grams. This complete line covers all applications, and includes a Universal Yarn Numbering Balance, a Berman Density Balance and the unique RosanoTM Surface Tensiometer. Prices? Remarkably reasonable. Send for our free 16-page illustrated catalog.



Federal Pacific Electric Co., 50 Paris Street, Newark, N. J

reviewed aspects of the early history of concepts involved in betatron acceleration, as well as items in the early development and operation of the betatron.

The symposium, planned by the Subcommittee on Radiation Dosimetry of the American Association of Physicists in Medicine, was sponsored by the Association, the New York Academy of Sciences, and the Office of Naval Research. Additional financial support was provided by the American Roentgen Ray Society and several accelerator manufacturers.

The proceedings will be published by the New York Academy of Sciences. LAWRENCE H. LANZL

University of Chicago, Chicago, and International Atomic Energy Agency, Vienna

JOHN S. LAUGHLIN Memorial Hospital and Sloan-Kettering Institute, New York

Calendar of Events—January

National Meetings

4-6. Human Factors in Automotive Engineering Design, Ann Arbor, Mich. (Society of Automotive Engineers, Continuing Education Program, 485 Lexington Ave., New York 10017)

7-12. American Chemical Soc., New Orleans, La. (Meetings Manager, 1155 16th St., NW, Washington, D.C. 20036)

8-9. National Specialists Symposium on Orbital Resonance, Redondo Beach, Calif. (G. S. Gedeon, Systems Group, TRW, Inc., One Space Park, Redondo Beach 90278)

8-12. Automotive Engineering Congr. and Exposition, Detroit, Mich. (W. I. Marble, Soc. of Automotive Engineers, Meetings Div., 485 Lexington Ave., New York 10017)

9-11. Chemical Marketing, Hopatcong, N.J. (Saul Gordon Associates Center for Professional Advancement, P.O. Box 66, Hopatcong 07843)

10-13. National Soc. of **Professional Engineers**, winter mtg., Washington, D.C. (P. H. Robbins, NSPE, 2029 K Street NW, Washington, D.C. 20006)

11-12. Wires for Electrical Conductors, Philadelphia, Pa. (American Soc. for Testing and Materials, 1916 Race St., Philadelphia 19103)

14-18. Society for Cryo-Ophthalmologists, Miami Beach, Fla. (J. G. Bellows, Executive Sceretary, 30 N. Michigan Ave., Chicago, Ill. 60602)

15-16. Medical Library Board, Washington, D.C. (Medical Library Assoc., Inc., 919 N. Michigan Avenue, Chicago, III.)

15-17. Noise Measurement and Control, Hopatcong, N.J. (Saul Gordon Associates Center for Professional Advancement, P.O. Box 66, Hopatcong 07843)

15-17. Paint, Varnish, Lacquer, and Related Products, Cincinnati, Ohio.

SCIENCE, VOL. 158

(American Soc. for Testing and Materials, 1916 Race St., Philadelphia, Pa. 19103)

15-17. Use of Data Mechanization and Computers in Clinical Medicine, New York, N.Y. (E. R. Gabrieli, Director, Clinical Information Center, SUNY, Buffalo, N.Y. 14215)

15-18. Environmental Sciences Research Symp. (Solid Waste Disposal, Air Pollution, Agricultural Pollutants, Water Quality, Corrosion), New Orleans, La. (E. Klein, Director, Physical Chemistry, P.O. Box 26500, New Orleans 70126)

16-18. Reliability Symp., Boston, Mass. (V. R. Monshaw, Astro-Electronics Div., RCA, Box 800, Princeton, N.J. 09540)

17-19. Nuclear Medicine, postgraduate symp., St. Louis, Mo. (E. J. Potchen, Washington Univ. School of Medicine, St. Louis, Mo. 63110)

17-19. Process Industries, instrumentation symp., College Station, Tex. (R. G. Anthony, Texas A&M Univ., College Station)

18-20. Pediatrics: Diagnosis and Treatment of Disorders of Perception, Speech and Learning, Gainesville, Fla. (Division of Postgraduate Education, P.O. Box 746, J. Hillis Miller Health Center, Gainesville 32601)

19-20. American **Rheumatism** Assoc., mtg., Baltimore, Md. (M. M. Walsh, ARA Headquarters, 1212 Ave. of the Americas, New York 10036)

New York 10036) 19-20. American Soc. for Surgery of the Hand, annual mtg., Chicago, Ill. (R. M. Curtis, The Society, 2947 St. Paul St., Baltimore, Md. 21218)

19-20. **Blood**, 16th annual symp., Detroit, Mich. (W. H. Seegers, Chairman, Dept. of Physiology and Pharmacology, Wayne State Univ. College of Medicine, Detroit 48207)

20-25. American Academy of Orthopaedic Surgeons, annual mtg., Chicago, Ill. (J. K. Hart, AAOS, 29 E. Madison, Chicago 60602)

22-23. Industrial Research, 3rd annual, Chicago, Ill. (V. H. Disney, IIT Research Inst., 10 W. 35 St., Chicago 60616)

22-24. Aerospace Sciences mtg., New York, N.Y. (Meetings Manager, American Inst. of Aeronautics and Astronautics, 1290 Ave. of the Americas, New York 10019)

22-24. Coal and Coke, Philadelphia, Pa. (American Soc. for Testing and Materials, 1916 Race St., Philadelphia 19103)

22-24. Radioisotopes and Radiation Effects, New Orleans, La. (American Soc. for Testing and Materials, 1916 Race St., Philadelphia, Pa. 19103)

22-26. **Basic Electronics**, Hopatcong, N.J. (Saul Gordon Associates Center for Professional Advancement, P.O. Box 66, Hopatcong 07843)

22-26. Marine Sciences Instrumentation, 4th natl. symp., Cocoa Beach, Fla. (M. Reed, Instrument Soc. of America, 530 William Penn Pl., Pittsburgh, Pa. 15219)

22-26. Powder X-Ray Diffractometry, Austin, Tex. (D. E. Griffith, Program Director, Taylor Hall 153, College of Engineering, University of Texas, Austin 78712)

22–27. Air Conditioning Principles and Practices, Austin, Tex. (D. E. Griffith, 15 DECEMBER 1967



... smoothly, evenly—the instant they touch the paper. We've been aware of your pen frustrations, and we've done something about it ... our exclusive sapphire-tipped pen. Its fine, clear trace shows every fluctuation. This pen fills easily, writes 2000-3000 inches per filling and requires less than 2 grams of pressure. The ink flow is regulated at all writing speeds and positions.

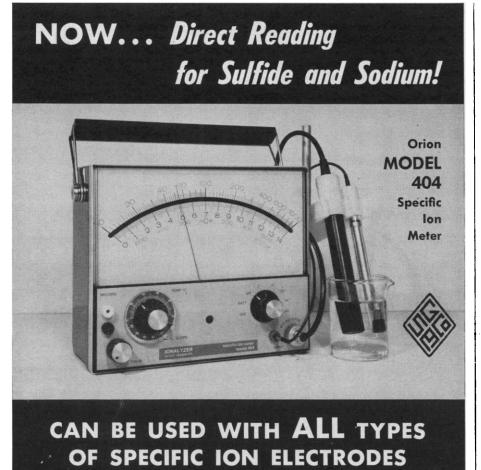
There's more to a V.O.M. Recorder than a great pen. It has an event marker and 5 chart speeds, a zener diode reference supply for continuous accuracy, plus high off-balance input impedance. It attaches easily to most analytical instruments. It's compact—you place it where you need it. Many other built-in features. Models available with the sensitivity you need. Write for Catalogs 37-2174 and 37-2194. Better yet, try one yourself in a no-obligation demonstration. Bausch & Lomb, Electronics Division, 85648 Bausch Street, Rochester, New York 14602.

ELECTRONICS DIVISION

BAUSCH & LOMB (

ADVANCING ELECTRONIC/OPTICAL

INSTRUMENTATION



This brand-new portable instrument can be used with any specific ion electrode on the market today. In addition to measuring total water hardness, fluoridation levels, pH, and redox potentials, the "404" gives you direct readout of all ions—including silver. There are special switch positions for sulfide and sodium or monovalent cations.

Features include: zero drift photomodulator circuitry, a taut-band meter with mirror scale to eliminate parallax, high input impedance to accommodate electrodes with resistances up to 10,000 megohms, and all solid state circuitry.

You'll like the simplicity of the "404"... the color-coded scales and function switch positions for easy identification... the *quick-release* electrode jack for exchanging electrodes... and the fact that you can operate this instrument four hours a day for a full year on a pair of transistor radio batteries.

Excellent for routine determinations in the lab, or in the field both winter and summer for controlling air and water pollution or for on-site monitoring of plant and stream effluents. Ask us for bulletin 404.

H-5706X Orion Specific Ion Meter, Model 404, in handy carrying case with two batteries, support rod, electrode holder, bottles and plastic beakers. Meter is 6 3⁄4 "x7 3⁄4 "x3 3⁄8", weight 4 3⁄2 lbs. Price without electrodes\$400.00



Program Director, Taylor Hall 153, College of Engineering, University of Texas, Austin 78712)

23. Industrial Associates Research Review, Houston, Tex. (D. E. Griffith, Program Director, Taylor Hall 153, College of Engineering, University of Texas, Austin 78712)

23. Preventive and Therapeutic Aspects of **Coronary Heart Disease**, conf., New York, N.Y. (Conference Planning Committee, New York Heart Association, 10 Columbus Circle, New York 10019)

23–26. Council on Social Work Education, Minneapolis, Minn. (P. Stickney, Council on Social Work Education, 345 E. 46 St., New York 10017)

23-26. Water, Technical Committee mtg., West Palm Beach, Fla. (American Soc. for Testing and Materials. 1916 Race St., Philadelphia, Pa. 19103)

23–27. American Mathematical Soc., 74th annual, San Francisco, Calif. (G. L. Walker, American Mathematical Soc., Box 6248, Providence, R.I. 02904)

24-25. Health Physics, 2nd mid-year symp., Augusta, Ga. (C. M. Patterson, E. I. duPont, Savannah River Lab., Aiken, S.C. 29801)

25-27. Mathematical Assoc. of America, 51st annual, San Francisco, Calif. (H. M. Gehman, MAA, Executive Director, c/o SUNY at Buffalo, N.Y. 14214)

25–27. Symmetry Principles at High Energy, 4th conf., Coral Gables, Fla. (Conf. on Symmetry Principles at High Energy, Center for Theoretical Studies, University of Miami, Coral Gables)

27-1. American Group **Psychotherapy** Assoc., conf., Chicago, Ill. (M. Schiff, AGPA. Room 702, 1790 Broadway, New York 10019)

28. Fourth Mössbauer Symp., Chicago, Ill. (P. A. McNulty, New England Nuclear Corp., 575 Albany St., Boston, Mass. 02118)

28-2. Institute of Electrical and Electronics Engineers, winter power mtg., New York, N.Y. (J. W. Bean, American Electric Power, 2 Broadway, New York 10008)

28-2. Testing and Materials, winter mtg., Atlantic City, N.J. (T. A. Marshall, Jr., American Soc. for Testing and Materials, 1916 Race St., Philadelphia, Pa. 19103)

29–31. National Assoc. of **Private Psychiatric Hospitals**, 35th annual mtg., Miami Beach, Fla. (The Association, 353 Broad Ave., Leonia, N.J.)

29-31. Society of **Thoracic Surgeons**, annual mtg., New Orleans, La. (F. X. Byron, Executive Secretary, Society for Thoracic Surgeons, City of Hope Medical Center, 1500 E. Duarte Rd., Duarte, Calif. 91010)

29-1. American Assoc. of **Physics Teachers**, annual mtg., Chicago, Ill. (S. S. Ballard, Univ. of Florida, Gainesville 32603)

29–1. American Meteorological Soc., 48th annual, San Francisco, Calif. (K. C. Spengler, AMS, 45 Beacon St., Boston, Mass. 02108)

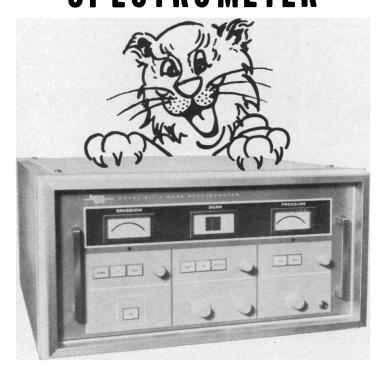
29-1. American **Physical** Soc., annual mtg., Chicago, Ill. (R. G. Sachs, Box 344, Argonne, Ill. 60440)

29-3. Bio-Physical Techniques, Hopat-

SCIENCE, VOL. 158

1506

the **TIGER TAMER** Leader of the line AERO VAC 610-611 MASS SPECTROMETER



AERO VAC's 610-611 tames and solves your wildest gas analyses problems and provides the useful data you require. The 610-611 has bagged the Tigers of Mass Spectrometry by providing:

Operating Maximum Pressure	10 ⁻³ torr
Sensitivity	10 ⁻¹³ torr
Expandable Resolution	to 250
Expandable Mass Range	

The Aero Vac 610-611 Gas Analyzer can measure total pressure, repetitively scan, operate by remote control, and operate automatically.

Call your local AERO VAC office for further information.

WALTHAM,	MASS.	0215
Aero Vac Co	np.	
25 Grant St.		
617/894-839	9	

154 TROY, N.Y. 12181 B Aero Vac Corp. A P. O. Box 448 F 518/274-5850 P

 BALTIMORE, MD. 21240
 HUDSON, OHIO 44236

 Aero Vac Corp.
 Aero Vac Corp.

 Friendship International Airport
 P. O. Box 236

 P. O. Box 8673
 216/653-5007

 301/277-4799
 216/753-5007



cong, N.J. (Center for Professional Advancement, P.O. Box 66, Hopatcong 07843)

International and Foreign Meetings

1-5. Health Education, intern. seminar, London, England. (Ciba Foundation, 41 Portland Pl., London, W.1, England)

3-6. Solid State Physics, 5th annual conf., Manchester, England. (Meetings Officer, The Institute of Physics and The Physical Society, 47 Belgrave Sq., London, S.W.1, England)

3-10. Tamil Research, intern. conf. and seminar, Madras, India. (X. S. Thani Nayagam, c/o Dept. of Indian Studies, Univ. of Malaya, Kuala Lumpur, Malaysia)

5-6. Medical Days of Renon, intern. mtg., Collalbo, Italy. (M. DeMichelis, Via Modica 6, Milan, Italy)

8-10. Nordic Geological, winter mtg., Lund, Sweden. (G. Regnell, Chairman, Organizing Committee, c/o Paleontologisk-Geologiska Institutionen, Lunds Universitet, Solvegatan 13, Lund)

9-11. Valence and Reactivity, intern. symp., Oxford, England. (Scientific Affairs Officer, Chemical Soc., Burlington House, London, W.1, England)

10-1. British Commonwealth Forestry, 9th conf., Delhi, India. (M. J. Eden, c/o Office of the Forestry Commission, 25 Savile Row, London, W.1, England)

12-16. Mollusca, symp., Cochin/Ernakulam, India. (The Convenor, Marine Biological Assoc. of India, Marine Fisheries Post Office, Mandapam Camp, India)

14-19. Strategies for Behavioral Change in Agricultural Development, intern. conf., Ithaca, N.Y. (J. P. Leagans, Education Dept., Stone Hall 109, Cornell Univ., Ithaca 14850)

14-21. Orthopedic Soc., 7th Latin-American Congr., Caracas, Venezuela. (L. Petracchi, Secretary, Potosi 42-15, Buenos Aires, Argentina)

16-20. **Psychiatry**, 2nd African colloquium, Dakar, Senegal. (Societé de Psychopathologie et d'Hygiene Mentale de Dakar, Service de Neuropsychiatrie, BP 5097, Centre Hospitalier de Fann-Daker, Dakar)

19-21. Diseases of Colon, Rectum and Anus, intern. seminar, Bombay, India. (R. K. Menda, Chairman, P.O Box 677, Bombay)

23–26. Canadian **Pulp and Paper** Assoc., 54th annual mtg., Montreal, P.Q., Canada. (The Association, 2280 Sun Life Building, Montreal 2, Quebec)

24-31. Australian and New Zealand Assoc. for the Advancement of Science, 40th Congr., Christchurch, New Zealand. (B. R. Penfold, Univ. of Canterbury, Private Bag, Christchurch 1)

29-30. Canadian Soc. of **Chemotherapy**, 4th annual mtg., Montreal, Quebec. (L. Tétreault, Service de Recherche, Hôpital Saint-Jean-de-Dieu, Montréal-Gamelin, Québec, Canada)

29-31. Photosensitization in Solids, 2nd intern. conf., Tucson, Ariz. (G. Tollin, Dept. of Chemistry, Univ. of Arizona, Tucson 85721)

SCIENCE, VOL. 158