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emitted beta particles is predominant. This localized effect is of value as a source of internal radiation in studies of mutagenesis, carcinogenesis, chromosome aberrations, and cell kinetics. As a source of radiation, C^{14} is unsuitable because of its long half-life and the low specific activities currently available. In tracer studies these very factors, however, give C^{14} some advantages over H^3 . The transmutation of P^{32} leading to single- and double-strand breaks in DNA may be useful in studying the organization and repair of DNA and chromosomes. The influence of localized effects in proteins may be studied with S^{35} transmutation, and the role of protein inactivation in lethality and mutagenesis assessed. Finally, it was agreed that consideration should be given to possible biological applications of transmutation by neutron activation and the Auger effect.

With respect to protection recommendations, the members concluded that presently there is no justification to modify the recommendations on body burdens on the basis of the contributions of effects resulting from transmutation.

The panel proceedings, including papers, discussions, and workshop summaries, will be published by the International Atomic Energy Agency.

MURRAY SCHULMAN

*Unit of Radiation Biology,
Division of Life Sciences,
International Atomic Energy Agency,
Vienna I, Austria*

JAMES E. CLEAVER

*Laboratory of Radiobiology,
University of California Medical
Center, San Francisco*

Calendar of Events

National Meetings

March

4-6. Society of Toxicology, Washington, D.C. (C. S. Weil, Mellon Inst., 4400 Fifth Ave., Pittsburgh, Pa. 15213)

4-6. Technology for Manned Planetary Missions, New Orleans, La. (Meetings Manager, 1290 Sixth Ave., New York)

4-7. Neutron Cross Section and Technology Conf., Washington, D.C. (D. T. Goldman, Natl. Bureau of Standards, Washington, D.C. 20234)

4-8. Analytical Chemistry and Applied Spectroscopy, Cleveland, Pa. (R. T. Oliver, Alcoa Research Labs., New Kensington, Pa.)

4-8. Diagnosis and Treatment of Cardiovascular and Pulmonary Diseases, Miami Beach, Fla. (H. L. Kruse, Executive

Assistant, American College of Chest Physicians, 112 East Chestnut St., Chicago, Ill.)

5-7. **Aviation-Electronics and Its Supporting Sciences**, Fort Monmouth, N.J. (Commanding General, U.S. Army Electronics Command, Attention AMSEL-RD-LN, Fort Monmouth 07703)

6-8. **Fundamental Cancer Research**, 22nd annual symp., Houston, Tex. (F. Goff, Special Projects, M. D. Anderson Hospital and Tumor Inst., Univ. of Texas, Houston 77025)

7-8. **The Doctor and His Hospital**, Inst. of Medicine of Chicago workshop, Chicago, Ill. (R. M. Potter, Secretary, Inst. of Medicine of Chicago, 332 S. Michigan Avenue, Chicago 60604)

7-8. **Society of Vacuum Coaters**, 11th annual, Miami Beach, Fla. (The Society, P.O. Box 3095, Cleveland, Ohio)

7-9. **Cerebellum in Health and Disease**, Dallas, Tex. (S. P. Cole, Coordinator, Univ. of Texas Southwestern Medical School at Dallas, 5323 Harry Hines Blvd., Dallas 75235)

7-9. **Southern Soc. of Anesthesiologists**, Dallas, Tex. (R. G. Zepernick, Mercy Hospital, New Orleans, La. 70119)

8-10. **Colorado Medical Soc.**, Denver. (D. G. Derry, Colorado Medical Soc., 1809 E. 18 Ave., Denver 80218)

8-10. **National Wildlife Federation**, 32nd annual, Houston, Tex. (The Federation, 1412 16th St., NW, Washington, D.C. 20036)

9-10. **American Psychiatric Assoc. Colloquium on Postgraduate Teaching of Psychiatry**, New Orleans, La. (M. L. Enelow, 3439 Prytania St., New Orleans 70115)

10-12. **American Soc. for Abrasive Methods**, Philadelphia, Pa. (R. J. Mayer, ASAM, 330 S. Wells St., Chicago, Ill. 60606)

10-14. **Gas Turbine Conf.**, Washington, D.C. (A. B. Conlin, Jr., Meetings Manager, 345 E. 47 St., New York 10017)

10-15. **American Soc. of Photogrammetry/American Congr. on Surveying and Mapping**, annual mtg., Washington, D.C. (W. B. Overstreet, 1819 Franwall Avenue, Silver Spring, Md. 20902)

11-12. **Phonocardiography**, American College of Cardiology, Chicago, Ill. (W. D. Nelligan, 9650 Rockville Pike, Washington, D.C. 20014)

11-13. **American College of Surgeons**, sectional mtg. for **Doctors and Nurses**, Williamsburg, Va. (Communications Department, 55 E. Erie St., Chicago, Ill. 60611)

11-13. **New Tools for Planning and Research Programming**, Commercial Chemical Development Assoc., Inc. annual mtg., New York, N.Y. (R. L. Chilenskas, Manager of Commercial Development, M & T Chemicals Inc., New York, N.Y.)

11-13. **Wildlife Management Inst.**, 33rd natural resources conf., Houston, Tex. (Wildlife Management Inst., 709 Wire Building, Washington, D.C. 20005)

11-14. **Canaveral Council of Technical Societies**, 5th space congr., Cocoa Beach, Fla. (E. P. Wynne, General Electric Co., Apollo Support Dept., P.O. Box 7011, Cape Canaveral, Fla. 32920)

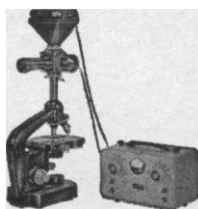
11-14. **Western Metal and Tool Conf. and Exposition**, Los Angeles, Calif. (J. A. Fellows, Director of Technical Programming, Metals Park, Ohio)

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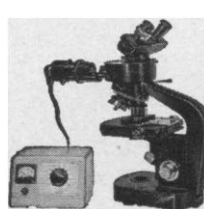
Some things any optical microscope can do.
Other things some can do.
A few things a few can do.



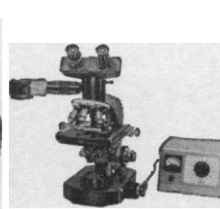
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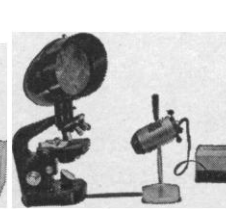
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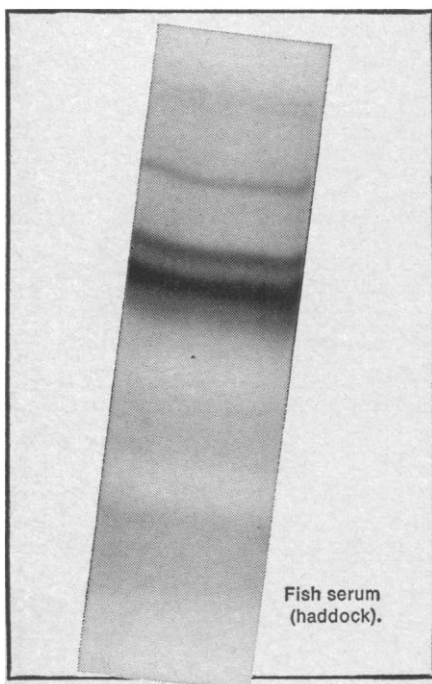
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11-15. Basic Inst. for Medical Record Personnel, Memphis, Tenn. (Miss M. C. Beard, RRL, Director, Institute Dept., 840 North Lake Shore Drive, Chicago, Ill. 60611)

12-14. Fire Weather Conf., Salt Lake City, Utah. (K. C. Spengler, 45 Beacon St., Boston, Mass. 02108)

13-15. Instrumentation for the Iron and Steel Industry, 18th natl. conf., Pittsburgh, Pa. (T. Schuerger, U.S. Steel Corp., Research Lab., Monroeville, Pa. 15146)

13-16. Optical Soc. of America, spring mtg., Washington, D.C. (M. W. Wurga, Executive Secretary, 1155 16th St., NW, Washington, D.C. 20036)

14-15. Forum on Geology of Industrial Minerals, 4th annual, Austin, Tex. (W. L. Fisher, Bureau of Economic Geology, Univ. of Texas, Austin 78712)

14-15. Neurohumoral Control of the Circulatory System, 7th natl. symp., Philadelphia, Pa. (F. R. Johnson, Heart Assoc. of Southeastern Pennsylvania, 318 S. 19 St., Philadelphia 19103)

14-16. Arizona Acad. of General Practice, Tucson. (P. R. Boykin, Executive Secretary, P.O. Box 441, Scottsdale, Ariz. 85252)

14-16. Biomathematics and Computer Science in the Life Sciences, 6th annual, Houston, Tex. (Office of the Dean, Univ. of Texas Graduate School of Biomedical Sciences at Houston, Division of Continuing Education, P.O. Box 20367, Houston 77025)

14-20. Marquette Univ. Medical Alumni Assoc., clinical conf., Palm Springs, Calif. (R. H. Herzog, Executive Secretary, The Association, 561 N. 15 St., Milwaukee, Wis. 53233)

15-16. State Mental Health Representatives, 14th annual, Chicago, Ill. (W. Wolman, Dept. of Mental Health, 535 N. Dearborn St., Chicago 60610)

18-20. Lubrication and Lubricant Rheology, symp., Ann Arbor, Mich. (W. O. Winer, Dept. of Mechanical Engineering, 225 West Engineering Bldg., Univ. of Michigan, Ann Arbor 48104)

18-20. American Acad. of Pediatrics, spring session, Atlanta, Ga. (G. E. Hughes, Secretary for Meetings, 1801 Hinman Ave., Evanston, Ill. 60204)

18-20. Psychedelic Drugs, Hahnemann Medical College and Hospital meeting, Philadelphia, Pa. (B. L. Segal, Program Chairman, Hahnemann Medical College and Hospital, 230 N. Broad St., Philadelphia 19102)

18-20. Systems Analysis and Social Change Forum, Washington, D.C. (L. E. Root, American Inst. of Aeronautics and Astronautics, 1290 Sixth Ave., New York 10019)

18-21. American Physical Soc., Berkeley, Calif. (W. Whaling, California Institute of Technology, Pasadena 91109)

18-21. American Radium Soc., annual mtg., Miami Beach, Fla. (J. L. Pool, Executive Secretary, Memorial Hospital, 444 E. 68 St., New York, N.Y.)

18-22. National Assoc. of Corrosion Engineers, 24th annual conf. and show, Cleveland, Ohio. (T. J. Hull, 980 M & M Building, Houston, Tex. 77002)

19-20. Equipment Manuals Symp., Washington, D.C. (National Security Industrial Assoc., 1030 15th St., NW, Washington, D.C. 20005)

19-20. Ocean Sciences and Engineering of the Atlantic Shelf, natl. symp., Philadelphia, Pa. (T. Evans, Conference Management Organization, Inc., Sheraton Park Hotel, 2660 Connecticut Ave., NW, Washington, D.C. 20008)

19-21. American Railway Engineering Assoc., Chicago, Ill. (E. W. Hodgins, Executive Secretary, 59 E. Van Buren St., Chicago 60605)

20. Suicidology, 1st natl. conf., Chicago, Ill. (E. S. Shneidman, Center for Studies of Suicide Prevention, National Inst. of Mental Health, 5454 Wisconsin Ave., Chevy Chase, Md. 20203)

20-22. American Petroleum Inst., southwestern district meeting, Tyler, Tex. (American Petroleum Inst., 1271 Avenue of the Americas, New York 10020)

20-22. Institute of Management Sciences, Atlanta, Ga. (E. T. Alsaker, Lockheed-Georgia Co., Dept. 88-1a, Zone 283, Marietta, Ga. 30060)

20-22. Progress in Operable Heart Disease, American College of Cardiology, New York, N.Y. (W. D. Nelligan, Executive Director, 9650 Rockville Pike, Washington, D.C. 20014)

20-23. American Orthopsychiatric Assoc., 45th annual, Chicago, Ill. (The Association, 1790 Broadway, New York 10019)

21-22. Modulation Transfer Function, Boston, Mass. (Society of Photo-Optical Instrumentation Engineers, P.O. Box 288, Redondo Beach, Calif. 90277)

21-23. Symp. on Microwave Power, 3rd symp., Boston, Mass. (C. Olsen, % Eimac, Division of Varian Assoc., 301 Industrial Way, San Carlos, Calif. 94070)

21-24. Radiographic Diagnosis of Head and Neck, Miami Beach, Fla. (L. R. Kelley, Dept. of Radiology, Jackson Memorial Hospital, Miami, Fla.)

22-23. Montana Medical Assoc., Helena. (L. R. Hegland, The Association, P.O. Box 1692, Billings, Mont. 59103)

22-23. Socio-Economics of Health Care, 2nd natl. congr., Chicago, Ill. (H. W. Doan, Dept. of Health Care Services, American Medical Assoc., 535 N. Dearborn St., Chicago 60610)

22-27. California Medical Assoc., San Francisco. (R. L. Thomas, 693 Sutter St., San Francisco 94102)

23. New Jersey Post Graduate Anesthesia Seminar, 9th annual, Cherry Hill. (P. A. Tucci, 22 The Fairway, Upper Montclair, N.J. 07043)

23-24. Missouri Soc. of Anesthesiologists, Kansas City. (G. W. N. Eggers, Jr., Univ. of Missouri Medical Center, Columbia 65201)

23-25. Postdoctorate Seminar in Professional Development, Philadelphia, Pa. (L. Hymes, Pennsylvania College of Podiatry, Pine at Eighth, Philadelphia 19107)

24-27. American Assoc. of Dental Schools, 45th annual session, San Francisco, Calif. (D. E. Mattson, 211 E. Chicago Ave., Chicago, Ill. 60611)

24-29. American College of Allergists, 24th annual congr., Denver, Colo. (E. Bauers, 2160 Rand Tower, Minneapolis, Minn. 55402)

24-30. American Soc. of Clinical Pathologists, New Orleans, La. (L. H. Hoyt, Methodist Hospital, Indianapolis, Ind.)

25-26. Geochemistry of Subsurface Brines, symp., Lawrence, Kans. (E. E.

Angino, State Geological Survey, Univ. of Kansas, Lawrence 66044)

25-27. **Electrocardiographic Interpretation of Arrhythmias: A Physiological Approach**, American College of Cardiology, Indianapolis, Ind. (W. D. Nelligan, Executive Director, 9650 Rockville Pike, Washington, D.C. 20014)

25-27. **Operations Research Symp.**, 2nd, Pittsburgh, Pa. (H. O. Teeple, TAPPI, 360 Lexington Ave., New York 10017)

25-27. **Simulation and Support Conf.**, AIAA 2nd flight test, Los Angeles, Calif. (Meetings Manager, American Inst. of Aeronautics and Astronautics, 1290 Sixth Ave., New York 10019)

25-28. **National Plant Engineering and Maintenance Show and Conf.**, Philadelphia, Pa. (K. E. Knowles, 245 Park Ave., New York 10017)

25-28. **Organic Solid State Chemistry Symp.**, Upton, N.Y. (G. Adler, Brookhaven National Lab., Upton, L.I., N.Y. 11973)

25-28. **Southeastern Surgical Congr.**, Washington, D.C. (A. H. Letton, 340 Boulevard NE, Atlanta, Ga. 30312)

27. **Oral Cancer Symp.**, 6th, Poughkeepsie, N.Y. (M. A. Engelman, One East Academy St., Wappingers Falls, N.Y. 12590)

27. **Association for the Advancement of Psychoanalysis**, New York, N.Y. (E. Schattner, Secretary, 147 E. 50 St., New York 10022)

27-28. **Railroad Conf.**, Chicago, Ill. (Institute of Electrical and Electronics Engineers, Inc., 345 E. 47 St., New York 10017)

27-29. **Linear Free Energy Relationships**, 2nd conf., Irvine, Calif. (J. E. Lefler, Dept. of Chemistry, Florida State Univ., Tallahassee 32306)

28-29. **American Assoc. of Petroleum Geologists**, Pacific Section, Bakersfield, Calif. (E. W. Ellsworth, Convention Manager, 1444 South Boulder, Box 979, Tulsa, Okla. 74101)

28-30. **Etiology, Diagnosis, and Treatment of Thromboembolism**, American College of Chest Physicians, Philadelphia, Pa. (H. L. Kruse, 112 E. Chestnut St., Chicago, Ill.)

28-30. **American Fertility Soc.**, San Francisco, Calif. (H. H. Thomas, 944 S. 18 St., Birmingham, Ala. 35205)

28-31. **Missouri State Medical Assoc.**, Kansas City. (R. McIntyre, The Association, 515 E. High St., Jefferson City, Mo. 65101)

29. **Symbiosis**, symp., Fullerton, Calif. (L. A. Stevens, Div. of Life Sciences, Fullerton Junior College, 321 Chapman Avenue, Fullerton 92634)

29-2. **National Science Teachers Assoc.**, natl. conv., Washington, D.C. (R. H. Carleton, NSTA, 1201 16th St., NW, Washington, D.C. 20036)

29-30. **Rural Health**, 21st natl., Seattle, Wash. (B. L. Bible, 535 N. Dearborn St., Chicago, Ill. 60610)

29-31. **American Nuclear Soc.**, student conf., Tucson, Ariz. (K. D. Kearns, Dept. of Nuclear Engineering, Univ. of Arizona, Tucson 45215)

29-31. **Clinical Pharmacology of Cardiovascular Drugs**, American College of Cardiology, Nutley, N.J. (W. D. Nelligan, Executive Director, 9650 Rockville Pike, Washington, D.C. 20014)

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29-31. American Psychosomatic Soc., Inc., Boston, Mass. (H. Weiner, Secretary-Treasurer, 265 Nassau Road, Roosevelt, N.Y. 11575)

29-31. American Soc. of Group Psychotherapy and Psychodrama, New York, N.Y. (H. B. Weiner, 1323 Avenue N, Brooklyn, N.Y. 11230)

29-31. American Soc. of Internal Medicine, Boston, Mass. (E. E. Daleske, 3410 Geary Blvd., San Francisco, Calif. 94118)

29-31. Arizona Chest Disease Symp., Tucson. (L. D. Hudson, P.O. Box 6067, Tucson 85716)

30-3. American Soc. of Abdominal Surgeons, Chicago, Ill. (B. F. Alfano, 675 Main St., Melrose, Mass. 02176)

30-3. Technical Assoc. of Pulp and Paper Industry, 5th water conf., Portland, Ore. (The Association, 360 Lexington Ave., New York 10017)

31-3. American Mosquito Control Assoc., New Orleans, La. (G. Carmichael, New Orleans Mosquito Control, 6601 Lakeshore Dr., New Orleans 70126)

31-3. Erosion as Related to Air and Water Pollution, Las Vegas, Nev. (R. B. Reams, Desert Research Inst., Univ. of Nevada, Reno 89507)

31-4. American Assoc. of Cereal Chemists, 53rd annual, and American Oil Chemists Soc., 58th annual, joint mtg., Washington, D.C. (R. J. Tarleton, 1955 University Ave., St. Paul, Minn. 55104)

31-4. Materials Engineering and Sciences, conf. and exposition, Philadelphia, Pa. (C. S. Grove, Jr., 5110 Brockway Lane, Fayetteville, N.Y. 13066)

31-5. American Chemical Soc., 155th spring natl. mtg., San Francisco, Calif. (A. T. Winstead, 1155 16th St., NW, Washington, D.C. 20036)

31-7. North American Clinical Dermatologic Soc., New Orleans, La. (E. F. Finnerty, The Society, 510 Commonwealth Ave., Boston, Mass. 02115)

International and Foreign Meetings

March

1-7. International Acad. of Pathology, 57th annual, Chicago, Ill. (F. K. Mostofi, Armed Forces Institute of Pathology, Washington, D.C. 20305)

2-16. International Soc. of Sugar Cane Technologists, 13th congr., Taipei, China. (H. S. Wu, Taiwan Sugar Corp., P.O. Box 35, Taipei)

3-6. Electrical Industry Show, 9th intern., New York, N.Y. (R. Pomerance, Intern. Electrical Shows, Inc., 331 Madison Ave., New York 10017)

4-6. Agricultural Sciences and the World Food Supply Symp., Wageningen, Netherlands. (International Agricultural Centre, P.O. Box 88, Wageningen)

5-7. European Symp. on the Application of Automatic Computation in Chemical Engineering, Munich, Germany. (Dechema, Postfach 7746, 6 Frankfurt am Main 7, Germany)

5-7. Materials for Engineering Conf. and Exhibition, Melton Mowbray, Great Britain. (Production Engineering Research Assoc. of Great Britain, G. E. Clark, Exhibition Organiser, Melton Mowbray, Leics)

5-7. International College of Tropical Medicine, 1st, Dakar, Sengal. (G. A. Myers, Provost, P.O. Box 497, Hamilton, Bermuda)

5-8. Nuclear Electronics and Radio-protection, symp., Toulouse, France. (Centre de Physique Atomique et Nucleaire de la Faculté des Sciences, 118, Route de Narbonne, 31 Toulouse 4)

5-9. Panafican Psychiatric Conf., 2nd, Dakar, Senegal. (J. P. Moreigne, Secretary, B. P. 5097, Dakar-Fann, Senegal)

5-22. Conference on North Atlantic Ocean Stations, Paris, France. (H. S. Marzusch, Intern. Civil Aviation Organization, 3Bis, Villa Emile-Egerat, Neuilly-sur-Seine, France)

6-10. Canadian Assoc. of Radiologists, 31st annual, Quebec, P.Q. (A. I. Ekstrand, 1555 Summerhill Ave., Montreal, P.Q., Canada)

7-8. International Inst. of Sugar-Beet Research, 31st annual winter congr., Brussels, Belgium. (O. J. Kint, Beauduinstraat 150, Tienen, Belgium)

7-9. German Soc. for Endocrinology, symp., Heidelberg, Germany. (E. Klein, Stadt Krankenanstalten, 48 Bielefeld, Germany)

8-9. American Foundrymen's Soc., northwest regional conf., Vancouver, B.C., Canada. (The Society, Golf and Wolf Sts., Des Plaines, Ill. 60016)

11-12. Canadian Aeronautics and Space Inst., astronautics symp., Montreal, P.Q., Canada. (The Institute, 77 Metcalfe St., Ottawa, Ont., Canada)

11-12. Urban Transportation, 3rd intern. conf., Pittsburgh, Pa. (Third Intern. Conf. on Urban Transportation, P.O. Box 1291, Pittsburgh 15230)

11-14. Modern Chemistry in Industry, 1st congr., Eastbourne, England. (Col. F. J. Griffin, 14 Belgrave Sq., London, S.W.1, England)

11-14. 1968 Physics Exhibition, London, England. (Meetings Officer, Inst. of Physics and the Physical Soc., 47 Belgrave Square, London, S.W.1)

11-15. Brain Research and Human Behaviour, symp., Paris, France. (P. Dell, Organisation Internationale de Recherche sur le Cerveau, Secretariat: Ibro/UNESCO, place de Fontenoy, Paris 7)

12-14. Non-Ferrous Metallurgy, Institute of Metals, London, England. (Inst. of Metals, 17 Belgrave Sq., London, S.W.1)

13-14. Experimental Methods in Tribology, symp., London, England. (K. H. Platt, Secretary, Inst. of Mechanical Engineers, 1 Birdcage Walk, London, S.W.1)

13-15. International Symp. on Radiation Therapy, New York, N.Y. (R. Phillips, Memorial Sloan-Kettering Cancer Center, 444 E. 68 St., New York 10021)

14-15. International Conf. on the Metal-Nonmetal Transition, San Francisco, Calif. (Technical Meetings Information Service, 79 Drumlin Rd., Newton Center, Mass. 02159)

14-16. Chemistry and Refrigeration, intern. symp., Nice, France. (Société de Chimie Industrielle, 80, Route de St. Cloud, 92 Rueil-Malmaison, France)

15-20. International Congr. of Lymphology, 2nd, Miami Beach, Fla. (M. Viamonte, Jr., Univ. of Miami School of Medicine, Jackson Memorial Hospital, Miami 33136)



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