

dren's Hospital, Philadelphia). The former speaker reviewed the known properties of interferon, concentrating on examples of electric charge heterogeneity of various interferons. Paucker discussed recent attempts at the radioactive labeling of Newcastle disease virus-induced mouse L cell interferon. This is an important subject, but since complete purification of interferon has so far not been achieved, the conclusions of these studies are still somewhat vulnerable. The results did suggest quite strongly that labeled amino acids were incorporated into interferon, because radioactivity remained associated with interferon during numerous purification steps including a final separation by polyacrylamide gel electrophoresis or isoelectric focusing. However, a component of control cells could not be separated from interferon by any of the techniques employed. Quite similar observations were made by S. Yamazaki (University of Virginia, Charlottesville), who studied the labeling of rabbit kidney cell interferon. Both Paucker and Yamazaki speculated that the protein from normal cells, which appears to be indistinguishable from interferon in its size and electric charge, might represent an inactive precursor of interferon. If so, then these two interferon species studied might be mixtures of de novo synthesized and preformed activated interferons, but it seems wise to defer judgment on this subject until more hard facts become available.

Incidentally, Yamazaki's most purified—albeit probably still not quite pure—rabbit cell interferon had a stunning specific activity of 4.8×10^7 units per milligram of protein.

The two papers concerned with the mechanism of interferon action (R. M. Friedman, National Institutes of Health; J. A. Sonnabend, Mt. Sinai School of Medicine, New York) reflected the current skepticism toward the Marcus-Salb hypothesis. This once almost universally accepted model had postulated that an interferon-induced cellular protein, named translation inhibitory protein, brings about a specific alteration in cellular ribosomes. Such altered ribosomes were said to be unable to bind or translate the viral messenger RNA while retaining their capability to translate cellular messenger RNA. It is fair to say that no definite evidence disproving the Marcus-Salb hypothesis has been presented. Rather, current criticism is based on the failure to reproduce the experiments forming the basis of this model. Alas, no alternative experimental evidence is available to explain the

mechanism of interferon action which, as repeatedly demonstrated, results in a selective suppression of viral protein synthesis.

The role of interferon in the pathogenesis of viral infections and the interrelationships of interferon and specific immune reactions were the subjects of papers by S. Baron (National Institutes of Health) and L. A. Glasgow (University of Rochester). Recent developments have suggested that interferon and specific immunity are not fully independent. In particular, it has become clear that lymphocytes not only play an important role in the production of antibody and in the cell-mediated types of immune response, but they also are an important source of interferon. Moreover, as demonstrated by Glasgow, immune lymphocytes respond to a homologous viral stimulation with increased interferon production.

The final part of the symposium was devoted to two recently recognized activities of interferon—the inhibitory effect on tumor growth and the suppression of intracellular multiplication of some protozoal parasites. H. B. Levy (National Institutes of Health) discussed his findings on the suppression of the growth of various malignant tumors in mice by a double-stranded polynucleotide interferon inducer polyinosinic-polycytidylic acid (poly I · poly C). It is still unclear whether all of this antitumor effect is interferon-mediated. However, the involvement of interferon seems likely in view of I. Gresser's independent demonstration of the suppression of mouse tumor growth by the passive administration of interferon. Since both poly I · poly C and interferon exert an inhibitory effect on tumors not known to be of viral origin, this activity cannot be the result of the antiviral action of these agents. Similar problems are posed by the demonstrated protective effect of interferon and of several interferon inducers against *Plasmodium berghei* mouse malaria (R. I. Jahiel, New York University). These findings indicate that interferon can no longer be considered a strictly antiviral agent.

Research on interferon has come a long way since its beginning some 12 years ago. Recent developments have suggested that the clinical applications of this research may be forthcoming. But our understanding of the mechanisms of interferon production and action has remained quite rudimentary.

JAN VILČEK

Department of Microbiology,
New York University
School of Medicine

Forthcoming Events

May

17-18. Modern Methods of **Chemical Separations** Symp., Buffalo, N.Y. (L. B. Church, Dept. of Chemistry, State Univ. of New York at Buffalo, Buffalo 13214)

17-20. American Inst. of **Chemical Engineers** and Puerto Rican Inst. of Chemical Engineers, 3rd joint mtg., San Juan, Puerto Rico. (P. Santiago, Caribbean Gulf Refining, San Juan)

17-21. **Pulp Bleaching**, 5th intern. conf., Atlanta, Ga. (R. A. Joss, Canadian Pulp and Paper Assoc., 2300 Sun Life Bldg., Montreal, P.Q., Canada)

17-30. International **Electrotechnical** Commission, Washington, D.C. (D. Hogan, U.S.A. Standards Inst., 10 E. 40 St., New York 10016)

18-20. National **Aerospace Electronics** Conf., Dayton, Ohio. (Inst. of Electrical and Electronics Engineers, Dayton Office, 134 E. Monument St., Dayton 45402)

18-20. American **Gastroenterological** Assoc., Boston, Mass. (H. D. Janowitz, Mt. Sinai Hospital, 11 E. 100 St., New York 10029)

18-20. **Neonatal Enteric Infections** Caused by *Escherichia coli*, conf., New York, N.Y. (L. R. Neville, New York Acad. of Sciences, 2 E. 63 St., New York 10021)

18-20. Instrument Soc. of America, **Power Instrumentation** Symp., 13th, Kansas City, Mo. (R. A. Russell, Box 8405, Kansas City 64114)

18-20. **Steels for Dynamic Loading**, Cleveland, Ohio. (W. M. Mueller, American Soc. for Metals, Metals Park, Ohio)

18-21. **Photosynthetic** Unit, intern. conf., Gatlinburg, Tenn. (R. M. Pearlstein, Oak Ridge Natl. Lab., P.O. Box Y, Oak Ridge, Tenn. 37830)

18-22. **Air Force Materials** Symp. '70, Miami Beach, Fla. (J. Shipp, Executive Director, AFMS '70, P.O. Box 38, Dayton, Ohio 45420)

18-22. **Medical Library** Assoc., New Orleans, La. (H. B. Schmidt, Executive Secretary, MLA, 919 N. Michigan Ave., Chicago, Ill. 60611)

18-22. Society of **Photographic Scientists and Engineers**, 23rd annual conf., New York, N.Y. (F. Brown, Logetronics, 7001 Louisdale Rd., Springfield, Va. 22150)

19-20. International Conf. on **Magnet Technology**, Hamburg, Germany. (W. Jentschke, German Hamburg Electron Synchrotron, Notkeskieg 1, D-2, Hamburg 52)

19-22. Society for **Experimental Stress Analysis**, Huntsville, Ala. (B. E. Rossi, 21 Bridge Sq., Westport, Conn. 06880)

20-22. Conference on **Fracture Control: Theory and Application**, Chicago, Ill. (A. M. Mueller, American Soc. for Metals, Metals Park, Ohio 44073)

20-22. **Teratology** Soc., 10th annual, Annapolis, Md. (R. W. Miller, 402 Wisconsin Bldg., Bethesda, Md. 20014)

22-29. International **Cancer** Congr., 10th, Houston, Tex. (M. M. Copeland, Univ. of Texas, P.O. Box 20465, Houston 77025)

24-28. Institute of **Food Technologists**, San Francisco, Calif. (C. L. Willey, IFT, 221 N. LaSalle St., Chicago, Ill. 60601)

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24-28. International Congr. of **Social and Preventive Medicine**, 3rd, Venice, Italy. (S. Vanasia, General Secretary, The Congress, 71, via M. Macchi, Milan, Italy)

24-29. Chemical Inst. of Canada/Canadian Soc. for **Chemical Engineering**, Toronto, Ont. (W. M. Campbell, Ontario Research Foundation, Sheridan Park, Ontario, Canada)

24-30. European **Cultural Foundation** Congr., 7th, Rotterdam, Netherlands. (Secretariat, Holland Organizing Centre, 16, Lange Voorhout, The Hague, Netherlands)

25-26. Symposium on **Biochemistry of Brain and Memory**, Kenosha, Wis. (S. P. Datta, Univ. of Wisconsin-Parkside, Kenosha 53140)

25-26. Progress in **Gas Dynamic Research by Optical Methods**, Syracuse, N.Y. (D. S. Dosanjh, Dept. of Mechanical and Aerospace Engineering, Syracuse Univ., Syracuse 13210)

25-29. European Conf. on **Psychosomatic Research**, 8th, Knokke, Belgium. (M. E. Houben, Universitaire St. Jozeikliniek voor Psychiatrie, 3070 Kortenberg, Belgium)

26-29. **Textile Institute** Conf., 5th annual, London, England. (Textile Inst., 10 Blackfriars St., Manchester 3, England)

27-29. **Alcohol and Drug Addiction** Foundation Symp., Toronto, Canada. (R. M. Gilbert, Addiction Research Foundation, 344 Bloor St. W., Toronto 179, Ont.)

30-1. Pan American **Cancer Cytology** Congr., Jamaica, B.W.I. (J. E. Ayre, Westbury Quadrangle, 113 S. Service Rd., Jericho, N.Y. 11753)

June

1-5. Symposium on Use of **Computers for Automatic Control of Traffic**, Versailles, France. (G. Ruppel, Intern. Federation of Automatic Control, Postfach 1139, Dusseldorf 1, Germany)

1-6. International **Mineral Processing** Congr., 9th, Prague, Czechoslovakia. (U. P. Vyskus Rud, Modranska 23, Prague)

1-6. World **Mining** Congr., 6th, Madrid, Spain. (A. G. Readett, Natl. Coal Board, Hobart House, Grosvenor Pl., London, S.W.1, England)

1-6. World Congr. of **Occupational Therapists**, 5th, Zurich, Switzerland. (G. Stauffer, Kraftstr. 22, 8044, Zurich)

2-4. Conference on **Stress Corrosion Cracking**, New Orleans, La. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

2-5. Mid-American Symp. on **Spectroscopy**, 22nd, Chicago, Ill. (W. A. Loseke, IIT Research Inst., 10 W. 35 St., Chicago 60616)

3-5. American **Chemical Soc.**, Central regional, 2nd, Columbus, Ohio. (R. W. Bird, 2540 Olentangy River Rd., Columbus 43210)

4-5. **Environmental and Water Resources Engineering** Conf., 9th annual, Nashville, Tenn. (E. L. Thackston, Vanderbilt Univ., Box 133, Sta. B, Nashville 37203)

4-5. **Molecular Biology**, 4th intern. symp., New York, N.Y. (E. G. Bassett, Research Products Div., Miles Laboratories, Inc., Elkhart, Ind. 46514)

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7-9. **Computer Applications in the Earth Sciences**, 8th colloquium, Lawrence, Kans. (D. F. Merriam, Kansas Geological Survey, Univ. of Kansas, Lawrence 66044)

7-10. **American Soc. of Mechanical Engineers**, Boston, Mass. (A. B. Conlin, Jr., 345 E. 47 St., New York 10017)

8-9. **Choice Criteria and Management Systems for Estuarine Resources Conf.**, Charleston, S.C. (J. C. Hite, Dept. of Agricultural Economics, Clemson Univ., Clemson, S.C. 29631)

8-10. **International Conf. on Communications**, San Francisco, Calif. (A. M. Peterson, Stanford Research Inst., Menlo Park, Calif. 94025)

8-10. **Association for Gnotobiotics**, Notre Dame, Ind. (M. Pollard, Dept. of Microbiology, Univ. of Notre Dame, Notre Dame 46556)

8-10. **Conference on Powder Metallurgy**, Detroit, Mich. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

8-12. **International Gas Conf.**, 11th, Moscow, U.S.S.R. (R. H. Tonwaide, General Secretary, Intern. Gas Union, 4 Av. Palmerston, Brussels 4, Belgium)

8-12. **International Symp. on Plant Protein: Their Improvement through the Application of Nuclear Techniques**, Vienna, Austria. (J. H. Kane, U.S. Atomic Energy Commission, Washington, D.C. 20545)

9-12. **American Astronomical Soc.**, Boulder, Colo. (H. M. Gurin, 211 Fitz Randolph Rd., Princeton, N.J. 08540)

9-12. **Canadian Federation of Biological Societies**, 13th annual, Montreal. (K. K. Carroll, Dept. of Biochemistry, Univ. of Western Ontario, London 72, Canada)

10-12. **Low Energy X- and Gamma Ray Sources and Applications**, 3rd symp., Boston, Mass. (J. W. Hitch, Div. of Isotopes Development, U.S. Atomic Energy Commission, Washington, D.C. 20545)

11-13. **Endocrine Soc.**, St. Louis, Mo. (N. L. Mattox, Suite 304, 1211 N. Sharel, Oklahoma City, Okla. 73103)

12-14. **Society of Biological Psychiatry**, Atlantic City, N.J. (G. N. Thompson, 2010 Wilshire Blvd., Los Angeles, Calif. 90057)

13-14. **American Diabetes Assoc.**, St. Louis, Mo. (J. R. Connelly, 18 E. 48 St., New York, N.Y. 10017)

14-18. **Botanical Soc. of America**, northwestern section, New London, Conn. (R. K. Zack, Dept. of Botany, Drew Univ., Madison, N.J. 07940)

14-18. **American Nuclear Soc.**, Los Angeles, Calif. (O. J. Du Temple, 244 E. Ogden Ave., Hinsdale, Ill. 60521)

14-18. **National Plastics Exposition and Conf.**, Cleveland, Ohio. (L. P. Williams, 250 Park Ave., New York 10017)

14-19. **Air Pollution Control Assoc.**, 63rd annual, St. Louis, Mo. (A. Arch, 4400 Fifth Ave., Pittsburgh, Pa. 15213)

14-19. **Mass Spectrometry and Allied Topics**, 18th annual conf., San Francisco, Calif. [J. M. McCrea, Applied Research Lab. (73), U.S. Steel Corp., Monroeville, Pa. 15146]

14-19. **American Soc. of Medical Technologists**, Detroit, Mich. (S. B. Friedheim, Suite 1600, Hermann Professional Bldg., Houston, Tex. 77025)

14-19. **Canadian Assoc. of Pathologists**, Winnipeg, Man. (C. W. Penner, Winnipeg General Hospital, Winnipeg 3)

15-16. **Catalytic Hydrogenation and**

Analogous Pressure Reactions, 3rd conf., New York, N.Y. (L. R. Neville, New York Acad. of Sciences, 2 E. 63 St., New York 10021)

15-17. **American Neurological Assoc.**, 95th annual, Atlantic City, N.J. (S. A. Trufant, Cincinnati General Hospital, Cincinnati, Ohio 45229)

15-17. **National Conf. of Standards Laboratories**, Gaithersburg, Md. (R. J. Barra, Westinghouse Defense and Space Center, P.O. 746, Baltimore, Md. 21203)

15-18. **American Soc. for Engineering Education**, Columbus, Ohio. (W. L. Collins, 2100 Pennsylvania Ave., NW, Washington, D.C. 20037)

15-18. **American Meteorological Soc. Symp.**, Boulder, Colo. (J. London, Dept. of Astro-Geophysics, Univ. of Colorado, Boulder 80302)

15-18. **Tissue Culture Assoc.**, 21st annual, Washington, D.C. (V. P. Perry, American Foundation for Biological Research, 11125 Rockville Pike, Rockville, Md. 20853)

15-19. **International Symp. on Information Theory**, Noordwijk, Netherlands. (P. E. Green, Jr., M.I.T. Lincoln Lab., Lexington, Mass. 02173)

15-19. **Nuclear Data for Reactors**, 2nd intern. conf., Helsinki, Finland. (J. H. Kane, Div. of Technical Information, U.S. Atomic Energy Commission, Washington, D.C. 20545)

15-19. **Vacuum Metallurgy**, intern. conf., Anaheim, Calif. (E. L. Foster, Battelle Memorial Inst., 505 King Ave., Columbus, Ohio 43201)

15-19. **American Water Resources Assoc. Conf.**, Milwaukee, Wis. (G. Karadi, Dept. of Applied Sciences and Engineering, Univ. of Wis., Milwaukee 53201)

16-17. **Environmental Variables in Animal Experimentation**, 2nd annual, Metropolitan Branch, American Assoc. for Lab. Animal Science, New Brunswick, N.J. (D. Miller, Smith Kline & French, 1500 Spring Garden St., Philadelphia, Pa.)

16-18. **Conference on Cold Forming of Metal Parts**, Cleveland, Ohio. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

16-18. **American Helicopter Soc.**, 26th annual natl. forum, Washington, D.C. (H. M. Lounsbury, 30 E. 42 St., New York 10017)

16-19. **Canadian Psychiatric Assoc.**, 20th annual, Winnipeg, Man. (W. A. Blair, 225 Lisgar St., Ottawa, Ont., Canada)

17-18. **European Dialysis and Transplant Assoc.**, 7th annual, Barcelona, Spain. (W. Drokker, 75 de Lairesestraat, Amsterdam, Netherlands)

17-19. **Cryogenic Engineering Conf.**, Boulder, Colo. (J. L. Smith, Jr., Rm. 41-204, Massachusetts Inst. of Technology, Cambridge, Mass. 02130)

17-20. **American Rheumatism Assoc.**, Detroit, Mich. (M. M. Walsh, 1212 Ave. of the Americas, New York 10036)

17-21. **American Therapeutic Soc.**, Chicago, Ill. (R. T. Smith, 37 Narbrook Pk., Narberth, Pa. 19072)

17-24. **Chemical Engineering and Congr. of Chemical Engineers**, Frankfurt-am-Main, Germany. (J. Dohent, Natl. Chemical Exposition, 86 E. Randolph St., Chicago, Ill. 60601)

18-19. **Current Concepts of the Histol-**

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ogy of the Oral Mucosa Symp., Chicago, Ill. (C. A. Squier, College of Dentistry, Univ. of Illinois at the Medical Center, Chicago 60680)

18-20. **Bibliographical Soc. of America**, Philadelphia, Pa. (W. H. Bond, Houghton Library, Harvard Univ., Cambridge, Mass. 02138)

18-20. **American Assoc. of Bioanalysts**, New York, N.Y. (D. Birenbaum, 802 Ambassador Bldg., St. Louis, Mo. 63101)

20-25. **American Soc. of Radiologic Technologists**, Miami Beach, Fla. (G. J. Eilert, 527 S. Main St., Fond du Lac, Wis. 54935)

21-24. **American Dairy Science Assoc.**, 65th annual, Gainesville, Fla. (C. Cruse, 903 Fairview Ave., Urbana, Ill. 61801)

21-24. **American Leather Chemists Assoc.**, Lake Placid, N.Y. (M. T. Roddy, c/o Tanners Council Research Laboratories, Univ. of Cincinnati, Cincinnati, Ohio 45221)

21-25. **American Association for the Advancement of Science**, Pacific Div., Berkeley, Calif. (R. C. Miller, California Acad. of Sciences, Golden Gate Park, San Francisco 94118)

21-25. **American Medical Assoc.**, Chicago, Ill. (W. E. Burmeister, 535 N. Dearborn St., Chicago, Ill. 60610)

21-25. **American Veterinary Medical Assoc.**, Las Vegas, Nev. (D. A. Price, 600 Michigan Ave., Chicago, Ill. 60605)

21-26. **American Soc. for Testing and Materials**, Toronto, Ont., Canada. (T. A. Marshall, Jr., ASTM, 1916 Race St., Philadelphia, Pa. 19103)

22-24. **International Conf. on the Role of Tryptophan Metabolism in Biochemistry and Pathology**, Madison, Wis. (T. C. Meyer, Univ. of Wisconsin, Madison 53706)

22-25. **Canadian Soc. of Agronomy**, Ottawa, Ont. (R. Loiselle, Ottawa Research Sta., Central Experimental Farm, Ottawa)

22-25. **Symposium on Bioinorganic Chemistry**, Blacksburg, Va. (R. E. Dessy, Dept. of Chemistry, Virginia Polytechnic Inst., Blacksburg 24061)

22-25. **Canadian Soc. of Horticultural Science**, Ottawa, Ont. (E. C. Loughheed, Dept. of Horticulture, Univ. of Guelph, Guelph, Ont.)

22-25. **American Assoc. of Petroleum Geologists**, Calgary, Alta., Canada. (J. M. Browning, Tenneco Oil and Minerals, P.O. Box 1051, Calgary)

22-25. **Canadian Soc. of Soil Science**, Ottawa, Ont. (A. R. Mack, Central Experimental Farm, Ottawa)

22-25. **Thyroid Conf.**, 6th annual, Vienna, Austria. (R. Hofer, c/o Wiener Medizinische Akademie, Alserstrasse 4, A-1090, Vienna)

22-26. **American Assoc. of Avian Pathologists, Inc.**, Las Vegas, Nev. (G. H. Snoeyenbos, Univ. of Massachusetts, Amherst 01002)

22-27. **Mathematical Statistics and Probability**, 6th, Berkeley, Calif. (E. L. Scott, Dept. of Statistics, Univ. of California, Berkeley 94720)

23-26. **State of the Art in Corrosion Testing Methods Symp.**, Toronto, Canada. (W. H. Ailor, American Soc. for Testing and Materials, Reynolds Metals Co., 4th and Canal Sts., Richmond, Va. 23218)

24. **Biometric Soc.**, Western North American regional, Berkeley, Calif. (J. S. Williams, Statistical Lab., Colorado State Univ., Fort Collins 80521)

24-26. **National Aeronautics and Space Administration**, Ames Research Center, Moffett Field, Calif. (M. R. Heinrich, NASA, Ames Research Center, Moffett Field 94035)

24-26. **American Automatic Control Conf.**, Atlanta, Ga. (D. Lyons, Dept. of Textiles, Clemson Univ., Clemson, S.C.)

24-26. **Equipment Manuals Symp.**, Washington, D.C. (R. Post, Dept. of the Army, Materiel Command, Washington, D.C. 20315)

24-26. **Extreme Environments: Microbial Adaptation**. (M. R. Heinrich, Natl. Aeronautics and Space Administration, Ames Research Center, Moffett Field, Calif. 94035)

24-26. **Canadian Wood Chemistry Symp.**, 3rd, Vancouver, B.C. (D. A. I. Goring, Pulp and Paper Research Inst. of Canada, 570 St. John's Rd., Pointe Claire, P.Q.)

24-27. **Drugs and Cerebral Function Symp.**, 2nd annual, Denver, Colo. (M. L. Smith, Suite 1120, 2045 Franklin, Denver 80205)

24-27. **Hydrobiology**, natl. symp., Miami Beach, Fla. (J. C. Warman, Water Resources Research Inst., Auburn Univ., Auburn, Ala. 36830)

24-27. **Western Soc. of Malacologists**, 3rd annual, Stanford, Calif. (C. Skoglund, 3846 E. Highland Ave., Phoenix, Ariz. 85018)

24-1. **International Symp. on Mechanical Properties and Processes of the Mantle**, Flagstaff, Ariz. (L. R. Sykes, Columbia Univ., Palisades, N.Y. 10964)

25-27. **Leukocyte Culture Conf.**, 5th, Ottawa, Canada. (J. Harris, Ottawa General Hospital, Ottawa 2)

28-2. **Health Physics Soc.**, 15th annual, Chicago, Ill. (W. J. Blair, Biology Dept., Battelle Northwest, Richland, Wash. 99352)

28-4. **American Library Assoc.**, Detroit, Mich. (D. H. Clift, Executive Director, The Association, 50 E. Huron St., Chicago, Ill. 60611)

28-4. **American Optometric Assoc.**, 73rd annual congr., Honolulu, Hawaii. (G. Allen, Jr., 7000 Chippewa St., St. Louis, Mo. 63119)

28-4. **Radiation Research**, 4th intern. congr., Evian, France. (J. F. Duplan, Fondation Curie, 26 rue d'Ulm, F-75-Paris 5^e, France)

29-1. **Drug Metabolism in Man**, New York, N.Y. (E. S. Vesell, Pennsylvania State Univ. College of Medicine, Hershey, Pa.)

29-1. **American Soc. of Heating, Refrigerating and Air Conditioning**, Kansas City, Mo. (J. T. Szabo, 345 E. 47 St., New York 10017)

29-1. **Society for Industrial and Applied Mathematics**, Denver, Colo. (N. Bleistein, Dept. of Mathematics, Univ. of Denver, Denver 80210)

29-1. **Water Quality Management Data and Instrumentation**, Madison, Wis. (I. Grossman, New York State Dept. of Health, 84 Holland Ave., Albany 12208)

29-3. **International Conf. of Operational Research Soc. and Inst. of Management**



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Sciences, London, England. (Mrs. M. Kinnaird, Operational Research Soc. Ltd., 62-64 Cannon St., London E.C.4)

30-3. American Dental Soc. of Europe, Dublin, Eire. (D. Derrick, 140 Park Lane, London W.1, England)

July

1-3. Institute of Navigation, 25th annual, Colorado Springs, Colo. (R. E. Freeman, Suite 832, 815 15th St., NW, Washington, D.C. 20005)

1-4. Canadian Dental Assoc., Winnipeg, Man. (J. P. Beattie, 435 Academy Rd., Winnipeg 9)

1-6. National Education Assoc., San Francisco, Calif. (S. M. Lambert, NEA, 1201 16th St., NW, Washington, D.C. 20036)

2-3. American Inst. of Aeronautics and Astronautics and Canadian Aeronautics and Space Inst. joint meeting, Toronto, Ont., Canada. (H. C. Luttman, 77 Metcalfe St., Ottawa 4, Ont.)

5-9. Agricultural Pesticide Soc., Ottawa, Ont., Canada. (W. H. Minshall, Research Inst., Canada Agriculture, University Sub Post Office, London, Ont.)

5-9. Canadian Soc. of Agronomy, Ottawa, Ont. (R. Loiselle, Ottawa Research Sta., Central Experimental Farm, Ottawa)

5-9. Canadian Soc. of Soil Science, Ottawa, Ont. (A. R. Mack, Soil Research Inst., Central Experimental Farm, Ottawa)

6-10. Microwave Spectroscopy Conf., Bangor, England. (Meetings Officer, Inst. of Physics and The Physical Soc., 47 Belgrave Sq. London S.W.1, England)

6-10. Urban Water Resources Management Conf., Henniker, N.H. (K. R. Wright, Wright Water Engineers, Denver, Colo.)

6-11. Symposium on Applications of Holography, Besancon, France. (J. Ch. Vienot, Laboratoire de Physique Générale et Optique, Faculté des Sciences, Univ. de Besancon, 25 Besancon, France)

6-12. Society of Nuclear Medicine, Washington, D.C. (M. Glos, 211 E. 43 St., New York 10017)

7-9. Conference on Scanning Electron Microscopy in Materials Science, Newcastle upon Tyne, England. (E. H. Boulton, School of Chemistry, The University, Newcastle upon Tyne)

7-9. Conference on Modern Welding Techniques, New York, N.Y. (J. A. Fellows, American Soc. for Metals, Metals Park, Ohio 44073)

7-10. Catalytic Oxidation Principles and Processes, intern. symp., London, England. (J. F. Gibson, Chemical Soc., Burlington House, London)

7-10. International Conf. on the Chemistry and Physics of Organic Scintillators and Liquid Scintillation Counting, San Francisco, Calif. (C. T. Peng, School of Pharmacy, Univ. of California, San Francisco 94122)

7-10. Symposium on Stock and Recruitment, Aarhus, Denmark. (L. R. Day, Intern. Commission for Northwest Atlantic Fisheries, P.O. Box 638, Dartmouth, Nova Scotia, Canada)

8-10. American Soc. of Agricultural Engineers, 63rd annual, Minneapolis, Minn. (J. L. Butt, P.O. Box 229, St. Joseph, Mich. 49085)

8-10. Symposium on Non-Aqueous Electrochemistry, Paris, France. (J. Badoz-Lambling, Laboratoire de Chimie Analytique, 10 rue Vauquelin, Paris 5)

8-10. Western Resources Conf., Denver, Colo. (J. J. Schanz, Jr., Denver Research Inst., Univ. of Denver, Denver 80210)

8-11. World Congress of Digestive Endoscopy, 2nd, Copenhagen, Denmark. (S. Stoichita, 29 rue Pitar Mos, Bucharest, Rumania)

9-10. Texas Water Pollution Control Assoc., 9th conf., Houston, Tex. (H. N. Myrick, Dept. of Civil Engineering, Univ. of Houston, Houston 77004)

12-16. Powder Metallurgy, 3rd intern. conf., New York, N.Y. (P. K. Johnson, Metal Powder Industries Federation, 201 E. 42 St., New York 10017)

12-18. International Soc. of Gastroenterology, 4th world congr., Copenhagen, Denmark. (M. Andreassen, Univ. Kirurgiske Klinik C., Rigshospitalet, Copenhagen)

12-18. Photochemistry, 3rd intern. symp., St. Moritz, Switzerland. (D. Bryce-Smith, Dept. of Chemistry, Univ. of Reading, Reading, England)

12-18. International Soc. of Urology, 15th congr., Tokyo, Japan. (T. Ichiawa, 1 Toyamacho, Shinju Ku, Tokyo)

13-15. American Assoc. of Physicists in Medicine, Washington, D.C. (J. A. Hancock, Jr., Box 2546, Malcolm Grow USAF Hospital, Andrews Air Force Base, Washington, D.C. 20331)

13-17. American Soc. of Civil Engineers, Boston, Mass. (W. H. Wisely, ASCE, 345 E. 47 St., New York 10017)

13-17. Engineering Foundation Research Conf., Henniker, N.H. (F. P. Huddle, Reference Service, Library of Congress, Washington, D.C.)

13-17. National Policy for Materials, Henniker, N.H. (F. P. Huddle, Library of Congress, Washington, D.C.)

13-17. Transportation and Engineering, Boston, Mass. (W. H. Wisely, American Soc. of Civil Engineers, 345 E. 47 St., New York 10017)

14-16. Electromagnetic Compatibility, internat. symp., Anaheim, Calif. (J. C. Senn, P.O. Box 1970, Anaheim 92803)

15-23. World Water Balance, intern. symp., Reading, England. (R. L. Nace, U.S. Geological Survey, Water Resources Div., Washington, D.C. 20242)

16-19. American Soc. of Extra-Corporeal Technology, 8th intern. conf., New Orleans, La. (E. C. Berger, 287 E. Sixth St., St. Paul, Minn. 55101)

16-20. American Malacological Union, 36th annual, Key West, Fla. (A. Solem, Field Museum of Natural History, Chicago, Ill. 60605)

17-18. Rocky Mountain Cancer Conf., Denver, Colo. (D. G. Derry, Colorado Medical Soc., 1809 E. 18th Ave., Denver 80218)

19-24. American Assoc. of Clinical Chemists, 22nd natl., Buffalo, N.Y. (D. A. Pragay, P.O. Box 38, Buffalo 14215)

20-22. American Inst. of Aeronautics and Astronautics, Detroit, Mich. (W. I. Marble, 2 Pennsylvania Plaza, New York 10001)

20-22. Society of Automotive Engineers, Detroit, Mich. (W. I. Marble, 2 Pennsylvania Plaza, New York 10001)