

leading to platelet agglutination and thrombus formation will permit the development of new anticoagulants. It was suggested that anticoagulants might be found with sufficient specificity of action to inhibit pathologic platelet agglutination but leave physiologic agglutination mechanisms intact.

There was one final subject of discussion: What causes platelets to adhere to one another when agglutination occurs? There are indications that several of the agents known to induce platelet agglutination may mediate their action through thrombin. The action of other agents, such as ADP, thrombocyte agglutinating factor, and collagen fibers, cannot at present be explained in this manner. Indeed, it has been suggested that thrombin merely causes the release of ADP from platelets and that only then does platelet agglutination occur. Waugh proposed several possible mechanisms or models for platelet agglutination. In one model a platelet agglutinating agent such as thrombin would act to produce hiatuses in the platelet membrane by removing a single molecular species. This would render the membrane unstable, and molecules from the interior of the platelet would be at-

tracted to these hiatuses. These molecules, since they differ from the molecular species originally present, would be unable to stabilize the membrane and would simply continue to congregate at the membrane surface. Eventually this process would lead to the formation of pseudopods, one of the earliest morphologic changes observed in the agglutination process. In another model a platelet agglutinating agent would act upon the platelet membrane either to remove or to rearrange structurally certain molecules. In this manner new electrical charges would be uncovered which could participate in binding platelets together. It is conceivable that these two processes operate simultaneously. Other molecules, released perhaps from the interior of the platelet, along with cations from the plasma, could form the bridges which would link adjacent membranes together. At present all of this is only educated speculation, but herein lies the challenge.

Note

1. Special presentations at the conference were made by H. J. Berman, C. F. Borchgrevink, K. M. Brinkhous, R. K. Cannan, A. B. Chandler, H. Cottier, R. M. Des Prez, R. L. Henry, D. P. Jackson, R. G. Mason, Jr., D. G. McKay, J. F. Mustard, N. F. Rodman, Jr., and M. B. Zucker.

Forthcoming Events

December

11-14. American Documentation Inst., Hollywood-by-the-Sea, Fla. (J. B. Kaiser, 1718 N St., NW, Washington 6)

12-14. American Soc. of Agricultural Engineers, Chicago, Ill. (J. L. Butt, P.O. Box 229, St. Joseph, Mich.)

17-20. International Arms Control, symp., Ann Arbor, Mich. (IACS, P.O. Box 1106, Ann Arbor)

17-21. University Physics Teaching Curricula, Laboratory Experiments, and Equipment in UNESCO member states, comparative survey, Paris, France. (UNESCO, Place de Fontenoy, Paris 7°)

26-31. American Assoc. for the Advancement of Science, annual, Philadelphia, Pa. (R. L. Taylor, AAAS, 1515 Massachusetts Ave., NW, Washington 5)

The following 40 organizations will meet in conjunction with the AAAS annual meeting in Philadelphia:

Academy of Psychoanalysis. (A. H. Rifkin, 125 E. 65 St., New York 21)

American Assoc. of Clinical Chemists. (P. Paubionsky, Abington Memorial Hospital, Abington, Pa.)

American Astronautical Soc. (J. G. Stephenson, Airborne Instruments Laboratory, Walt Whitman Rd., Melville, L.I., N.Y.)

American Economic Assoc. (H. F. Williamson, AEA, Northwestern Univ., Evanston, Ill.)

American Geophysical Union. (W. E. Smith, AGU, 1515 Massachusetts Ave., NW, Washington 5)

American Meteorological Soc. (F. Sergeant, II, Dept. of Physiology, Univ. of Illinois, Urbana)

American Nature Study Soc. (J. A. Gustafson, Route #1, Homer, N.Y.)

American Physiological Soc. (R. E. Smith, School of Medicine, Univ. of California, Los Angeles)

American Political Science Assoc. (E. M. Kirkpatrick, APSA, 1726 Massachusetts Ave., NW, Washington, D.C.)

American Psychiatric Assoc. (M. Greenblatt, Massachusetts Mental Health Center, Boston)

American Rocket Soc. (B. Chifos, ARS, 500 Fifth Ave., New York 36)

American Soc. of Criminology. (J. Chwast, New York Inst. of Criminology, 115-117 W. 42 St., New York 36)

American Soc. of Naturalists. (W. K. Baker, Dept. of Zoology, Univ. of Chicago, Chicago 37, Ill.)

American Soc. of Zoologists. (R. L. Watterson, Dept. of Zoology, Univ. of Illinois, Urbana)

American Sociological Assoc. (B. Clark, Center for the Study of Higher Education, 2747 Bancroft Way, Berkeley 4, Calif.)

Association of American Geographers. (B. Burton, 213-1500 Arlington Blvd., Arlington, Va.)

Association for Computing Machinery. (B. Gilchrist, IBM Research Laboratory, Post Office Box 218, Yorktown Heights, N.Y.)

Biomedical Information-Processing Organization. (R. S. Ledley, Natl. Biomedical Research Foundation, Silver Spring, Md.)

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Herpetologists' League. (W. Fox, School of Medicine, Louisiana State Univ., 1542 Tulane Ave., New Orleans 12)

Institute of Management Sciences. (B. V. Dean, Dept. of Management, Case Inst. of Technology, Cleveland, Ohio)

Metric Assoc. (R. P. Fischelis, 1426 G St., NW, Washington, D.C.)

Mountain Lake Biological Station. (J. L. Riopel, Univ. of Virginia, Charlottesville)

National Assoc. of Biology Teachers. (P. R. Fordyce, Oak Park-River Forest High School, Oak Park, Ill.)

National Assoc. of Science Writers. (N. Haseltine, *Washington Post*, Washington, D.C.)

National Geographic Soc. (W. R. Gray, NGS, 16th and M Sts., Washington 6)

National Science Teachers Assoc. (R. H. Carleton, NSTA, 1201 16th St., NW, Washington 6)

National Speleological Soc. (J. V. Thrailkill, Dept. of Geology, Princeton Univ., Princeton, N.J.)

Philadelphia Botanical Club. (W. M. Benner, Acad. of Natural Sciences of Philadelphia, Philadelphia 3)

Scientific Research Soc. of America. (D. B. Prentice, RESA, 51 Prospect St., New Haven, Conn.)

Sigma Delta Epsilon. (D. Quiggle, 133 Chemical Engineering Bldg., Pennsylvania State Univ., University Park)

Society for General Systems Research. (R. L. Meier, Mental Health Research Inst., Ann Arbor, Mich.)

Society for the History of Technology. (T. P. Hughes, Dept. of History, Washington and Lee Univ., Lexington, Va.)

Society for Industrial and Applied Mathematics. (G. Kaskey, Remington Rand Univac, 1900 W. Allegheny Ave., Philadelphia)

Society for Industrial Microbiology. (T. C. Cordon, Agricultural Research Service, 600 E. Mermaid Lane, Philadelphia 18)

Society of the Sigma Xi. (T. T. Holme, 51 Prospect St., New Haven, Conn.)

Society of Systematic Zoology. (C. F. Lytle, 801 Ware St., SW, Vienna, Va.)

Tau Beta Pi Assoc. (R. H. Nagel, Tau Beta Pi Assoc., Univ. of Tennessee, Knoxville)

United Chapters of Phi Beta Kappa. (C. Billman, 1811 Q St., NW, Washington 9)

Special conferences to be held during the meeting include:

Academy Conference, natl. meeting of 47 state academies. (R. C. Miller, California Acad. of Sciences, San Francisco)

Conference on Science Manuscripts. (N. Reingold, Science and Technology Div., Library of Congress, Washington 25)

Conference on Scientific Manpower. (T. J. Mills, National Science Foundation, Washington 25)

27-29. **American Geophysical Union,** western natl. meeting, Stanford, Calif. (W. W. Kellogg, Rand Corp., 1700 Main St., Santa Monica, Calif.)

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