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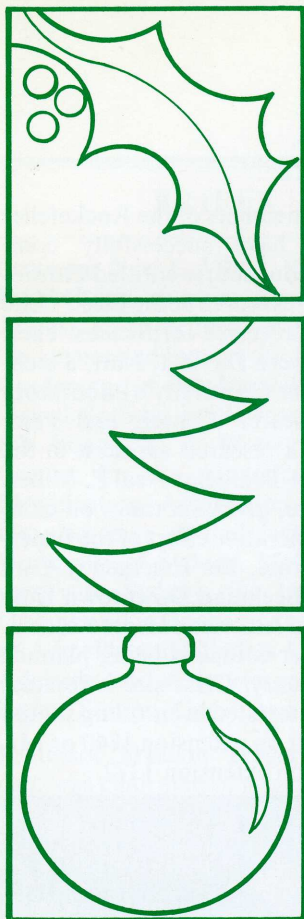
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Christmas Lectures

How do we know there are molecules? How do we deduce their properties and, once we know these properties, how can we use them to understand the physical world around us? These are some of the questions that Professor E. G. D. Cohen will explore in the 1978 Alfred E. Mirsky Christmas Lectures on Science, *Molecules in Motion: The Kinetic Theory of Matter*.

This is the University's 19th annual series of Christmas lectures for high school students and the first since 1963 on physics. It will be presented on the afternoons of December 27th and 28th in four parts: *Molecular Motion and the Liquefaction of Gases*; *Friction and the Size of Molecules*; *Brownian Motion and Avogadro's Number*; and *Reversibility and Irreversibility*.

From the middle of the 19th century through the early 20th century, scientists strove to establish the validity of the kinetic theory—the theory of matter based on the motion and properties of the atoms and molecules of which matter consists. In his talks, Dr. Cohen will discuss the major contributors of that period, among whom were Maxwell, van der Waals, Boltzmann, Einstein, and Smoluchowski, and relate their work to our present state of knowledge. In the last lecture, he will explain “how one can understand the forward direction of time manifested in the phenomena around us on the basis of the equations of mechanics which do not have such a direction of time.”

DECEMBER 1978 VOLUME 10 NUMBER 3

THE ROCKEFELLER UNIVERSITY *news and notes*

McCarty, Pfaffmann Retire As Vice Presidents

Maclyn McCarty and Carl Pfaffmann have retired as vice presidents, in accordance with the University's policy regulating retirement age for administrative officers. They will continue as heads of their respective laboratories.

Official announcement was made at the board of trustees meeting on October 17, at which President Lederberg expressed the gratitude of the University community for the dedicated service of both men.

Dr. McCarty, who has been at Rockefeller since 1941, holds the title of John D. Rockefeller Jr. Professor and is co-leader, with Professor Emeritus Rebecca C. Lancefield, of the laboratory of bacteriology and immunology. From 1960 to 1974, he was physician-in-chief of The Rockefeller University

Hospital. He was elected vice president in 1965.

A world-renowned authority on the transformation of pneumococcal types and the biology and immunochemistry of streptococci, Dr. McCarty was a member of the Rockefeller team, including the late Oswald T. Avery and the late Colin MacLeod, whose experiments demonstrated that deoxyribonucleic acid—DNA—is the substance that transmits hereditary information. This finding, published in 1944, is considered one of the most important discoveries in modern biological science.

A graduate of Stanford University with an M.D. from The Johns Hopkins University, Dr. McCarty came to what was then The Rockefeller Institute for

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HONORS & AWARDS

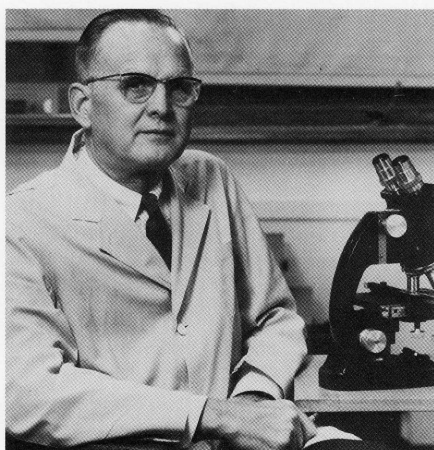
Professor **Edward H. Ahrens, Jr.**, Cholesterol Metabolism, received the 1978 Research Achievement Award of the American Heart Association, presented on November 13 at ceremonies opening the association's 51st Scientific Sessions. Dr. Ahrens was cited for 30 years of “pioneering investigations which have pushed forward our knowledge of lipids and lipid metabolism,” and as a “worldwide leader in the search to understand the diet-heart disease puzzle.” The award was established in 1953. Previous Rockefeller recipients were Professor Rebecca C. Lancefield (1964) and Adjunct Professor Brian F. Hoffman (1977).

Professor **Neal E. Miller** received the Mental Health Association Research Achievement Award, presented at the association's annual meeting in Minneapolis on November 8. The award includes the McAlpin Medal and \$10,000. Dr. Miller was cited for his contribution to understanding the causes and prevention of mental illness.

Professor **Emil C. Gotschlich**, Bacteriology and Immunology, received a 1978 Albert Lasker Award in clinical research for development of a vaccine against meningitis (see *news and notes*, November 1977). He shared the \$15,000 award, presented in New York on November 20, with Dr. Robert Austrian of the University of Pennsylvania Medical School and with Michael Heidelberger of the New York University School of Medicine, who was at The Rockefeller Institute from 1912 to 1927.

Professor **Armin C. Braun** was awarded the J. W. Jenkinson Memorial Lectureship at Oxford University, England. He was in residence at Pusey House, Oxford, from October 15 to November 15. He was associated with the Sir William Dunn School of Pathology during his tenure in England.

Professor **Walther F. Goebel**, Biochemistry, was one of 19 Achievement Award recipients selected by the magazine *Lab World*, as announced in the September issue. Dr. Goebel was cited for more than a half-century of research and findings on the role of bacterial carbohydrates in infection and resistance.



Maclyn McCarty

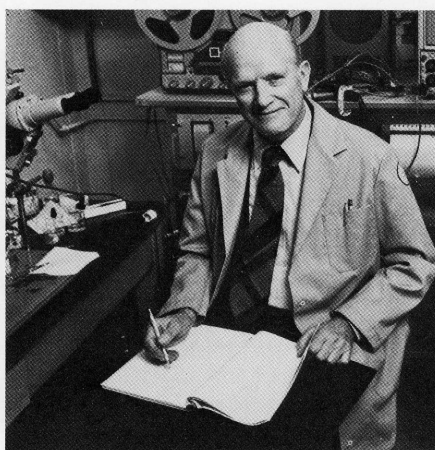
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Medical Research as a National Research Council Fellow. He was named an associate in 1946, associate member in 1948, member in 1950, and professor and senior physician in 1958. He was appointed professor in 1950 and John D. Rockefeller Jr. Professor in 1977.

Dr. Pfaffmann, who heads one of the University's physiological psychology laboratories, has been a pioneer in studies of olfaction and taste and their neural pathways in the brain.

He came to Rockefeller in 1965 as professor and vice president with major responsibility for developing a wide range of behavioral studies at the University. This area now includes his own and related physiological and neurobiological labs, animal behavior research groups, experimental psychology labs, with emphasis on language, communication, and learning, and a mathematical psychology laboratory.

Professor Araxie Kilejian, below, lecturing at the First Annual Meeting of the Great Neglected Diseases of Mankind program, initiated by The Rockefeller Foundation and held at the University November 12-17. Dr. Kilejian, a member of the University's parasitology laboratory, spoke on the biochemistry of malaria during a course in tropical medicine given as part of the meeting.



Carl Pfaffmann

A graduate of Brown University and of Oxford University, where he was a Rhodes Scholar, Dr. Pfaffmann earned his Ph.D. at Cambridge University under the direction of the late Baron Adrian, a Nobel laureate in physiology and a former trustee of The Rockefeller.

Dr. Pfaffmann spent most of his professional life before coming to Rockefeller at Brown University, where he was named Florence Pirce Grant University Professor of Psychology in 1960.

APPOINTMENTS

Bernard Fulpius, professor, Department of Biochemical Sciences, University of Geneva, as an adjunct professor in the chemical biology laboratory of Professor Edward Reich, effective January 1, 1979. (Dr. Fulpius is a 1973 Rockefeller alumnus.)

PROMOTIONS

Dennis W. Stacey, Viral Oncology, to assistant professor, effective September 1.

Robert W. Brackenbury, Developmental and Molecular Biology, to assistant professor, effective November 1.

Yu-Hwa Eugenia Wang, Virology, to assistant professor, effective November 6.

Elizabeth Dickson, Genetics, to assistant professor, effective January 1, 1979.

PERSONALS

Mary Nahon, assistant librarian, was married on June 10 to I. J. Galgan, formerly of Heathkit Electronics.

Lifesavers

To date, 50 members of the Rockefeller community have successfully completed a 12-hour course entitled Cardio-Pulmonary Resuscitation/Basic Life Support and received certificates. Their instructors were David J. Natt, a technician with the University's Laboratory Animal Research Center, and Peter Papadakos, a research assistant in the laboratory of Professor Neal E. Miller.

The course, given six times on campus, is a cooperative effort of the American Red Cross, the Emergency Care Institute of Beekman Downtown Hospital, and the American Heart Association. Another course is being planned for mid-January. Class size is limited, so anyone interested in enrolling should call Mr. Natt on extension 1840 or Mr. Papadakos on extension 1372.



Learning to save lives. Standing, Peter Papadakos instructs Lora Gill on a "Resusci-Baby" manikin. Foreground, Judith Hoffmann and Curtis Best, supervised by David Natt, try to revive "Recording Annie."

New Designer

The Christmas illustrations on page one were made especially for *news and notes* by Quincy Egginton who has been designing *news and notes* since last June. Mrs. Egginton is a doctoral student in art education at Teachers College, Columbia University, where she is a teaching assistant. She is an adjunct assistant professor of graphic design at The College of New Rochelle and teaches drawing and design at the Cooper-Hewitt Museum.

BRIEFS

Professor **Neal E. Miller**, Physiological Psychology, was in Australia from August 12 to September 12. He gave the keynote address at the 13th Annual Conference of the Australian Psychological Society, in Newcastle, and the 5th Annual J. B. Watson Memorial Lecture for the Australian Behavior Modification Association in Sydney. He also gave invited lectures at the University of Sydney, McQuarie University in Sydney, the University of Queensland in Brisbane, the University of Adelaide and Flinders University in Adelaide, and at the Heron Island Biological Station, Great Barrier Reef.

Professor **William Trager**, Parasitology, was chairman of a section on Production and Purification of Malaria Antigens in Culture at a workshop on Immunology of Malaria, sponsored by the World Health Organization and the U.S. Agency for International Development, held at the Naval Medical Research Institute, Bethesda, Maryland, October 2-5. Also participating from Dr. Trager's lab were Doctors **James B. Jensen**, **Araxie Kilejian**, **Susan G. Langreth**, **Phuc Nguyen-Dinh**, and **Robert T. Reese**.

Treasurer **Sydney A. Woodd-Cahusac** is the University's representative on the board of directors of the East Side Association, Inc., a civic organization covering the area from 14th to 96th Streets, and the East River to Fifth Avenue. It is involved with matters of local concern such as transit, traffic, and property use. Memberships are held by institutions, businesses, and individuals in the area. Mr. Woodd-Cahusac is replacing President Emeritus Frederick Seitz as the University's representative.

Professor **Barry W. Peterson**, Neurophysiology, was organizer, speaker, and session chairman at a symposium on the Reticular Formation Revisited, cosponsored by the International Brain Research Organization and the Society for Neuroscience, held November 2-5, preceding the Society's meeting in St. Louis. The symposium examined emerging concepts of brainstem reticular core function from anatomical, physiological, neurochemical, and behavioral viewpoints.

Nineteen papers by Rockefeller scientists were presented at the 8th Annual Meeting of the Society for Neuroscience, held in St. Louis, Missouri, November 5-9.

Gospels and Quarks: A Christmas Story

Each December, *news and notes* seeks a campus story appropriate to the holiday season. This year we discovered that the University is related by marriage to Professor Elaine H. Pagels, chairman of the Department of Religion of Barnard College, who has a special interest in early Christianity.

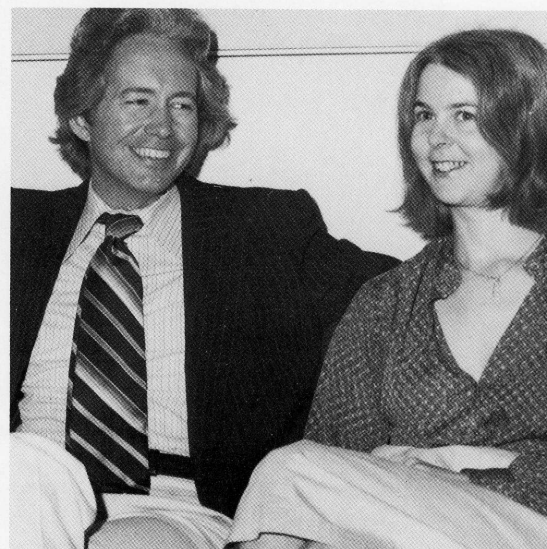
Dr. Pagels is currently completing a book about the Gnostic sects that originated from Hellenistic, Jewish, and early Christian sources. Gnostic accounts of the life and teachings of Jesus, she says, differ markedly from accounts in the Scriptures. "If we were celebrating Christmas now according to Gnostic gospels, there would be two infants in the manger, Jesus and his twin brother, Thomas."

Original source material on the Gnostics has been relatively scant. About 20 years ago, previously unknown texts were unearthed in Egypt. Because of the political climate there at the time, it was not until recently that foreign scholars, Dr. Pagels among them, were allowed to study the texts. Her new book, with the working title, *The Gospel of the Gnostic Heresies*, based upon her studies of these and other Gnostic writings, is an exploration of their philosophy, religion, and politics. It is supported by a Guggenheim fellowship and a Rockefeller Foundation fellowship and is intended for a general readership. She is also collaborating on the scholarly translation of parts of the texts, called *The Tripartite Tractate*.

Elaine Pagels is married to Professor Heinz Pagels, a Rockefeller theoretical physicist, who comments that Gnostic theories of the universe read "a bit like modern physics." It takes a degree of imaginative leaping to get from the Gnostics' "threefold primal substance" to the three quarks in a proton and quantum chromodynamics, his area of special study. But it is typical of both the Doctors Pagels to apply their very different perspectives in thinking about what he describes as "the impulse of human beings to render their experiences rational." While he enjoys the idea of an early religious movement with "a speculative, theoretical science," she ponders the philosophical and theological implications of modern man coping with a world view that includes such contributions from modern science as the notion of an ever-expanding universe.

Shakespeare said, "Let me not to the marriage of true minds admit impediments." How does the marriage of true

minds working in such disparate disciplines manage the potential "impediments" of respective careers? Apparently, the Pagels handle it with great finesse. Last year at this time, while she was participating in seminars and digs at the Albright School of Archeology in Israel, he was doing physics at nearby Weizmann Institute, Israel's counterpart of The Rockefeller. Most summers, she is scholar-in-residence at the Aspen Institute for Humanistic Studies, while he is at the Aspen Center for Physics, of which he is a trustee. Colorado also gives the Pagels a chance to pursue another mutual enthusiasm, climbing. Elaine Pagels concedes her husband's superiority in this area—he and Professor Samuel Silverstein, the



University's most celebrated climber, tackled 14,000-foot Capitol Peak last summer. On the other hand, while the Pagels are well known to be among the Rockefeller's best dancers, his status is strictly amateur. She, however, studied dance with an eye toward a professional career before deciding on the scholar's life, and still takes classes daily.

According to Elaine Pagels, Gnostic gospels attribute to Jesus the saying "If you bring forth what is in you, what you bring forth will save you."

Happy New Year to us all.

news and notes is published from October through July. This is Volume 10, Number 3. Suggestions for articles are welcome and may be sent to *news and notes*, Box 194, phone extensions 1420 and 1051. Photographs: p. 2, top left, Pach Bros.; top right, Ingbert Grüttner; bottom left and p. 4 left, George Byron; p. 2 right and p. 3, George Rodriguez; p. 4 right, Anne McGinley. © 1978, The Rockefeller University Press, New York 10021. Printed in the United States of America.

Sculpture Workshop

Tucked away in the Flexner Hall Extension basement, in what used to be part of the old animal facilities, is a large room with workbenches, tree branches, hunks of marble, and pieces of sculpture in various stages of completion.

For the past two years, the University has had its own sculpture workshop, available to its members 24 hours a day. The last olfactory reminder of the previous occupants of the 400-square-foot room is gone, but the hooks on which cages used to hang serve as excellent hoists for heavy materials.

An open house and exhibition was held on Monday evening, November 6, to let people on campus know of the

workshop's existence. Current membership includes Larry Altstiel, Milton Friedman, Harvey Grill, Robert Jones, Alan Lipton, Adele-Marie Monnier, Ray Martin, workshop coordinator, who was responsible for getting the workshop going, and Michelangelo Rossetto, workshop director.

The workshop members supply each other with advice, encouragement, and a helping hand when someone discovers a treasure—a cherry tree that's been cut down in Central Park, tree limbs from the annual pruning on campus, or whatever "found objects" imagination can convert to art. Bicycle wheels are particularly good.

Anyone interested in participating can call Ray Martin on extension 1254.



In the sculpture workshop, Robert Jones, left, and Ray Martin.

In Case of Snow

When the snow comes down, the University's pathclearers follow a schedule of priorities. If the way to your lab or office has not yet been shoveled when you arrive at the University, don't attempt to plow through a foot of snow. For your own safety, go to the nearest cleared entrance.

The first areas cleared are the 66th Street driveway and the entrances to Founder's and Flexner Hall and the Hospital; second, the Flexner Hall receiving and parking areas, the 64th Street receiving and parking areas, and the York Avenue sidewalks; third, the 65th Street and 68th Street parking lots and the internal walks; fourth, the entrance to the Children's School and the 68th Street sidewalk.

DEAN'S OFFICE MOVED

The office of the Dean has moved to Room 202, Bronk Laboratory.

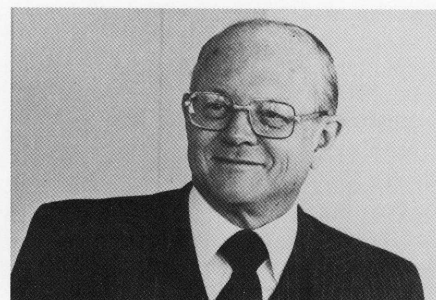
Runners

Let it not be said that Rockefeller isn't in the running. Pictured right are some of the members of the Rockefeller men's running team in full regalia at one of the Manufacturers Hanover Corporate Challenger races—a 3.5-mile course—last summer in Central Park. Some 1,400 runners participated.

From left to right, Richard Sterner, Klavs Berzins, Peter Blackburn, Jacques Hatzfeld, Steve Forst, and, standing, Karl Matlin and Ira Morganstern. (In the center, their loyal fans, Rafael and Monica Mira y Lopez.) Also among the group, not shown in the photograph, were Greg Snow and Bal Gisin.

The Rockefeller women's team included Susan Langreth, Miki Rifkin, Carol Rouzer, Luisa Skoble, and Linda Towers. Running individually were Vicky Harnik and Janet Tarnowsky.

Rockefeller was also well represented in the 26.2-mile New York Marathon in October. Running were John Bruer, Bal Gisin, Frank Greco, Karl Matlin, Bill Muller, and Greg Snow.



New Trustee

Frank T. Cary, chairman of the board and chief executive officer of International Business Machines Corporation, has been elected to the University's board of trustees.

A graduate of the University of California, Los Angeles, and an M.B.A. from Stanford University, Mr. Cary has been associated with IBM since 1948. He was elected to the board of directors in 1968, became IBM president in 1971, and board chairman in 1973.

He is a director of J. P. Morgan & Co. and Morgan Guaranty Trust Company of New York, national chairman of Junior Achievement Inc., chairman of the Encore Fund at the Kennedy Center, a member of the Corporation of MIT, and a trustee of The American Museum of Natural History and of the Museum of Modern Art.

Art Classes

The spring semester of art classes in calligraphy, basic drawing, or water color painting will be offered in two sessions—on Wednesdays, beginning February 7, and on Thursdays, beginning February 8. Each section meets for 15 sessions, from 7 to 9:30 p.m. For further information call J. Forest Vey, 833-2197.

