

FOUNDERS: BRITON HADDEN 1898-1929 HENRY R. LUCE 1898-1967

CHAIRMAN, EXECUTIVE COMMITTEE.... ROY E. LARSEN

MANAGING EDITOR Otto Fuerbringe

ASSISTANT MANAGING EDITORS

James Keogh, Henry Anatole Grunwald

SENIOR EDITORS

A. T. Baker, Jesse L. Birnbaum, Robert W. Boyd Jr., Champ Clark, George G. Daniels, Michael Demarest, John T. Elson, Edward Hughes, Edward L. Jamieson, Cranston Jones, Marshall Loeb, Peter Bird Martin, Richard Scamon.

ASSOCIATE EDITORS

ASSOCIATE EDITORS

Douglas Auchincloss, John Blashill, Gurney Breckenfeld, Gilbert Cant, Henry Bradford Darrach Jr., Spencer Davidson, Barker T. Hartsborn, Bruce Henderson, Charles P. Jackson, Leon Jaroff, William Johnson, Robert F. Jones, T. E. Kalem, Ray Kennedy, John Koffend, Ronald P. Kriss, Ed Magnuson, Robert McLaughlin, Jason McManus, Martin O'Neill, Charles Parmiter, John M. Scott, Robert Shnayerson.

CONTRIBUTING EDITORS

CONTRIBUTING EDITORS

Harriet Bachman, Laurence I. Barrett, Jay R. Bell, Joe David Brown, Clell Bryant, Marshall Burchard, Richard Burgheim, John M. Cavanagh, Gerald Clarke, Alton L. Clingen, Eugene F. Coyle, Johanna Davis, Charles Derecskey, Arnold Howard Drapkin, Erwin S. Edelman, José M. Ferrer III, Richard J. Gwyn, Piir Halasz, Timothy M. James, Stefan Kanfer, Jerry Kirshenbaum, Daniel K. Knapp, Alwyn Lee, Matthew M. Mestrovic, Lance Morrow, Howard H. Muson, Burjor Nargolwala, Donald Neff, Philip Barry Osborne, Christopher Porterfield, David B. Tinnin, Mark Vishniak, Alan Walker, Edwin G. Warner.

field, David B. Tinnin, Mark Vishniak, Alan Waiker, Edwin G. Warner.

EDITORIAL RESEARCHERS

Essie Lee (Chief), Ruth Brine, Nancy McD. Chase, Manon Gaulin, Berta Gold, Dorothy Haystead, Amelia North, Margaret Quimby, Marylois P. Vega.

Julie Adams, Virginia Adams, Susan Altchek, Ruth Annan, Nancy Atkinson, Lu Anne Aulenp, Priscilla B. Badger, Patricia Beckert, Jean Bergerud, Madeleine Berry, Joyce Bleidner, Dorothea Bourne, Molly Bowditch, Sandra Burton, Carol Ann Butcher, Rosemary Byrnes, Nicolette Caliendo, Sara Collins, Mimi Conway, Kathleen Cooil, Mary Cronin, Bewerley DeLuica, Greta Davis, Monica Dowdall, Rosamond Draper, Rosemary L. Frank, Joanne Funger, Linda George, Maria Glaser, Leah Shanks Gordon, Patricia Gordon, Harriet Heek, Andria E. Hourwich, Susan Howard, Joy Howden, Nancy Jelet, Marguerite Johnson, Katie Kelly, Geraldine Kirghia, enbaum, Barbara Kleban, Vera Kovarsky, Erika Kraemer, Ingrid Krosch, Mary McConachie, Martha MeDowell, Gillian McManus, Evelyn Merrin, Ursula Nadasdy, Leila Newman, Nancy Newman, Hilary Ostlere, Wirginia Page, Georgia A. Pampel, Jane Pett, S. Marion Pikul, Serena Rachels, Sue Raffety, Madeleine Richards, Caro Saner, Raissa Silverman, Elizabeth Statler, Betty Suyker, Andrea Svedberg, Stephanie Trimble, Fortunata Sydnot Vanderschmidt, Susanne S. Washburn, Brooke Wayne, Nancy Williams, Linda Young, Rosemarie Tauris Zadikov.

## CORRESPONDENTS

Nancy Williams, Linda Young, Rosemarie Tauris Zadikov.

CORRESPONDENTS

TIME-LIFE NEWS SERVICE

Richard M. Clurman (Chief). John Boyle (Deputy)

Donald Bermingham, R. Edward Jackson, Robert Parker,

WASHINGTON: John L. Steele, Hugh Sidey, Edwin W.
Goodpaster, Bonnie Angelo, Walter Bennett, Martha

Bucknell, Juan Cameron, Jess Cook Jr., Donn F. Downing, Hays Gorey, Jerry Hannifin, Lansing Lamont, Neil

MacNell, B. William Mader, Philip Mandelkorn, Michael

J. McManus, John Mulliken, Bruce W. Nelan, Mirian

Rumwell, David Wilkinson. Los Angeles: Mirian

Rumwell, David Wilkinson. Los Angeles: Reingold,

John Shaw, Robert Windeler, New York: James Bell,

Nick Thimmesch, James E. Brodhead, Marcianes Bell,

Nick Thimmesch, James E. Brodhead, Marcianes Gauger,

Rosalind Constable, Atlanta: Roger M. William F.

Marmon, Jr. Denver: Barron Beshoar, Dernott: Mark

Sullivan, Joseph J. Kane, Houston: Benjamin W. Cate,

San Francisco: Judson Gooding, Richard Saltonstall Jr.

LONDON: Henry Luce III, Gavin Scott, Honor Balfour,

Horace Judson, Ruth Mehrtens, Paris: Curtis Prender
gast, Keith R. Johnson, Robert T. Smith, Roger Stone,

Friedel Ungeheuer, James Wilde, Bonn: Herman Nickel.

Robert Ball. Eastern Europe: William Rademaekers.

Beirut: Lee Griggs. Hong Kong: Frank McCulloch,

Karsten Prager, Peter Vanderwicken, Arthur Zick,

Salton: Simmons Fentress, Dan Coggin, Kenneth

New Delhi! Marvin H. Zim, James Shepherd. Tokyo:

Jerrold L. Schecter, Frank Iwama, Sydnsky: Ernest

Natrob: London: Balliman, James Shepherd. Tokyo:

Jerrold L. Schecter, Frank Iwama, Sydnsky: Ernest

Natrob: Carachavited Ogle. Carkibean A.

New Delhi! Marvin H. Zim, James Shepherd. Tokyo:

Jerrold L. Schecter, Frank Iwama, Sydnsky: Ernest

New Delhi! Marvin H. Zim, James Shepherd. Tokyo:

Jerrold L. Schecter, Frank Iwama, Sydnsky: Ernest

Natrobil Edwin M. Reingold. Lagos: Alan H. Gossman

New

PUBLISHER James R. Shepley ADVERTISING DIRECTOR Robert C. Gordon

Assistant Publishers. Lawrence E. Laybourne Putney Westerfield General Manager. James A. Thomason

© 1967 TIME INC. All rights reserved. Reproduction in whole or part without written permission is prohibited. Principal office Rockefeller Center, New York, New York 10020.

## A letter from the PUBLISHER

James R. Shepley

N the post-abstract expressionist era of the '60s, modern art has been racing ahead at a frantic clip that is a challenge to its chroniclers. In recent years the editors have taken the readers through the worlds of pop and op (a TIME coinage, by the way) and on to kinetic and minimal. This week it's luminal. In a wide-ranging story, the Art section surveys the work of a new group of practitioners who "paint" in light. As usual in TIME, the story is supported by a portfolio of color illustrations.

We have long made liberal use of color engravings—which happen to be expensive but which, we feel, are indispensable to art journalism. As early as 1934 we ran color to support a story about American artists, including Thomas Hart Benton and Grant Wood. Since May 1951, Art has run color illustrations as a regular feature-1,413 color pages all told. "Black and white photogra-phy," says Senior Editor Cranston Jones, who is in charge of the Art section, "leaves out an essential element of the artist's statement."

We have photographed works of art around the world, in museums, churches and palaces. André Malraux has said that color reproductions have created a "museum without walls"; we like to think that TIME can be something of a museum between covers.

We pay due attention, of course, to classic as well as modern art, but it is the new and bizarre forms that pose special problems for the critic and the photographer—as we found again in working on the story about the luminists. They are very serious about their seemingly playful work, and their background is apt to be broader-or at any rate more technical-than that of the traditional artist. Their experience includes such

Cover Story

far-away fields as nuclear physics, optics and electronics. "They are of the technical age," says Piri Halasz, who wrote the story, "but they re-main artists primarily." Researcher Leah Gordon found Nuclear Engineer Earl Reiback's projection technology so complicated that she brought along Science Researcher Sydnor Vanderschmidt to help her interview him.

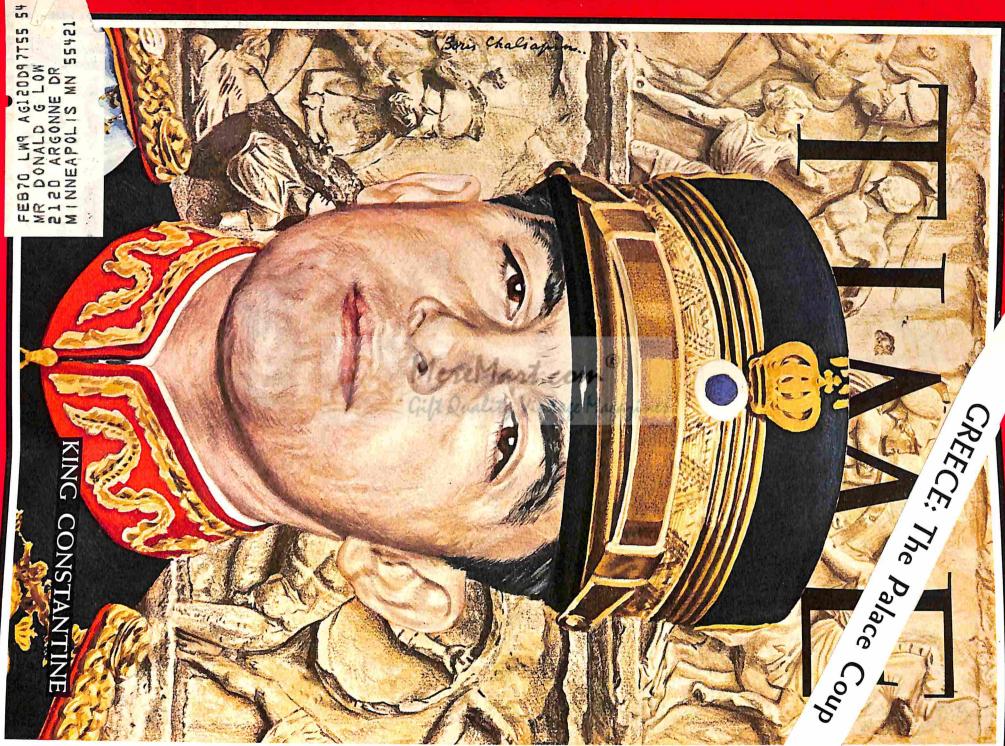
One of the works shown no longer exists; it was a series of projections from a machine called Clavilux, which its inventor, Thomas Wilfred, has since dismantled. Fortunately, before doing so, he photographed the projections. Not an easy thing to do, as our lensmen learned when they tried to focus on the moving, blinking, flashing machines. Said Photographer Frank Lerner: "To give the idea of light in motion was a difficult assignment because there is no such thing as a norm." He repeatedly went back for retakes; his subjects never looked the same. "I came back so often that I began to feel like The Man Who Came to Dinner at the gallery."

ONE hundred years ago, four of the colonies of what was then British North America formed a confederation. From that "union of scattered outposts in a vast territory," in the words of Canadian Prime Minister Lester Pearson, evolved modern Canada. To salute the nationwide centennial and Expo 67, which begins in Montreal April 28, Time Inc. last week opened an expo of its own in the Time & Life Building Exhibition Center in Manhattan. The show consists of models of the Montreal fair's pavilions, a diorama of the fair, films and works by Canadian artists. The exhibition is free to the public and will run through June 11.

## INDEX

28

| LSSdy 26                           |                                                                                   |                                                   |
|------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------|
| Education 59 Letters 11 Listings 2 | Milestones 103 Modern Living 86 Music 54 Nation 19 People 44 Press 88 Religion 62 | Show Business 104<br>Sport 75<br>U.S. Business 95 |



VOL. 89 NO. 17

2