

INFINITE ENERGYTM

Cold Fusion and New Energy Technology

Biographical Note for Dr. Eugene F. Mallove

Since 1995, Dr. Mallove has been the Editor-in-Chief and Publisher of the bi-monthly *Infinite Energy* Magazine, based in Concord, New Hampshire. Now in its fifth year of publication, *Infinite Energy* covers advances in the field of cold fusion and new energy technology and has subscribers in 38 countries, with an average print run of 5,000.

The magazine's New Hampshire-based parent company, Cold Fusion Technology, Inc., operates the New Energy Research Laboratory (NERL) and the magazine publishing facility at the Bow Technologies Center in Bow, New Hampshire.

Dr. Mallove holds a Master of Science Degree (SM, 1970) and Bachelor of Science Degree (SB, 1969) in Aeronautical and Astronautical Engineering from the Massachusetts Institute of Technology and a Science Doctorate in Environmental Health Sciences (Air Pollution Control Engineering) from Harvard University (1975). With broad experience in high technology engineering at companies including Hughes Research Laboratories, TASC (The Analytic Science Corporation), and MIT Lincoln Laboratory, he has also had extensive hands-on experience in laboratory settings—more recently in cold fusion calorimetry.

Since 1991 he has worked as a consultant to U.S. corporations and investment firms doing R&D in cold fusion. He is the author of three science books for the general public, including the Pulitzer-nominated book on cold fusion, *Fire from Ice: Searching for the Truth Behind the Cold Fusion Furor* (John Wiley & Sons, 1991). He has taught science journalism at MIT and at Boston University; he was Chief Science Writer at the MIT News Office when cold fusion erupted. Prior to that he was a top science writer and broadcaster with the Voice of America in Washington, DC and also wrote science and technology articles for magazines and newspapers, including *MIT Technology Review* and *The Washington Post*.

Articles about Dr. Mallove's cold fusion work have appeared in *TWA Ambassador Magazine* (September 1997) and in *Wired* (November 1998). Dr. Mallove's review article, "Cold Fusion: The Miracle Was No Mistake," appeared in the July/August 1997 *Analog*. Dr. Mallove is often called upon for radio interviews as an expert in the field of cold fusion and new energy.

Eugene Mallove was the Technical Advisor to the 1997 Paramount Pictures techno-thriller, "The Saint," starring Val Kilmer and Elisabeth Shue, and is credited in the film. The central theme of the movie is cold fusion. In April 1999, the definitive cold fusion video documentary written by Dr. Mallove and his colleagues, "Cold Fusion: Fire from Water," was released. Its narrator is James Doohan, "Scotty" of "Star Trek" fame.

Dr. Eugene F. Mallove
Cold Fusion Technology, Inc.
P.O. Box 2816 Concord, NH 03302-2816
Phone: 603-228-4516 Fax: 603-224-5975
editor@infinite-energy.com www.infinite-energy.com

Dr. Eugene F. Mallove

Editor-in-Chief and Publisher,

Infinite Energy TM Magazine

Cold Fusion Technology, Inc., P.O. Box 2816 Concord, NH 03302

editor@infinite-energy.com

<http://www.infinite-energy.com>

Phone: 603-228-4516 Fax: 603-224-5975

Education:

Harvard University

Sc.D. in Environmental Health Sciences (Aerosol Physics and Air Pollution Control specialization), June 1975. Thesis: "Aerosol Measurement by Combined Light Scattering and Centrifugation," an experimental and theoretical study to measure particle size distributions with laser light scattering, centrifugation, and data inversion.

Massachusetts Institute of Technology

S.M. in Aeronautical and Astronautical Engineering, August 1970, space propulsion, astrodynamics, inertial navigation, celestial mechanics, planetary physics, and space communication. Thesis: "A Cyclone Containment Model of the Liquid Core Nuclear Rocket."

Massachusetts Institute of Technology

S.B. in Aeronautical and Astronautical Engineering, June 1969. Basic aeronautical and astronautical engineering courses, four semesters of physics, six semesters of mathematics. Participation in multi-disciplinary systems study of missions to the outer planets.

Employment:

January, 1995-present

Editor-in-Chief and Publisher of bimonthly magazine *INFINITE ENERGY: Cold Fusion and New Energy Technology*. Premier issue, March/April 1995. (By September 2000, 32 issues published; the magazine is now in 38 countries, 2,500+readers, 5,000/month printed); on select newsstands in the US and Canada.

Director of New Energy Research Laboratory (NERL), Bow, New Hampshire

Technical advisor for and co-founder of New Energy Partners, LLP

June, 1994 -present

Experimental investigation of prospects for multi-kilowatt range cavitation-induced energy production. Collaboration with Chris Tinsley (UK), Jed Rothwell (US), and Chris Morris (UK) to investigate claims of novel power extraction in advanced magnetic motors. Possible eventual application of anomalous findings to hyper-efficient electric motors and generators. Investigate other "over-unity" and anomalous energy technology as Director of NERL. Investigate and develop demonstration devices and technologies surrounding new energy. Patent applications have been initiated at NERL.

December, 1993 - June, 1994

Editor, "*Cold Fusion*" Magazine at WGI publishing in New Hampshire. Produced three acclaimed issues of a pioneering magazine.

May, 1993 -present

Technical writing and editing. Consulting in cold fusion energy research and development. New venture business planning.

July 1992 - April, 1993

Vice President for Research, Clustron Sciences Corporation, Vienna, VA.

July 1991-July 1992

Engineering consultant in cold fusion research for a major New England corporation (Bose Corporation). Initiated the program there, which is now abandoned.

Sept. 1987- June 1991

MIT News Office. Chief Science Writer and Assistant Director in charge of reporting on all MIT research for the university's newspaper, *Tech Talk*, and through reports and press releases to other media. Handled contacts with national and local news media to publicize MIT research in both print and broadcast outlets.

Sept. 1990-July 1992

Lecturer, MIT Department of Humanities, teaching Science Journalism, subject 21.782. Organizer of and lecturer in a two-day course for environmental scientists and managers, Risk Communication and the News Media -- under the auspices of the Harvard Educational Resource Center for Occupational Safety and Health.

Sept. 1988-Spring 1990

Adjunct Professor at Boston University School of Communication. Teaching "Science and the News Media" in the Program in Reporting on Science and Medicine for science and journalism graduate students who plan science writing careers.

Jan. 1987-present

Author and freelance writer of science and technology features for magazines and newspapers. Author of *The Quickening Universe: Cosmic Evolution and Human Destiny*, New York: St. Martin's Press, 1987. Coauthor with Dr. Gregory Matloff of *The Starflight Handbook: A Pioneer's Guide to Interstellar Travel*, New York: John Wiley & Sons, 1989. Editor and contributor to the Physics Section of the *Almanac of Science and Technology*, San Diego: Harcourt Brace Jovanovich, 1990. Author of the non-fiction section of the science fiction novel *Red Genesis*, Bantam Books, 1991, Book 1 of The Next Wave Series (with fiction author S.C. Sykes). Author of *Fire from Ice: Searching for the Truth Behind the Cold Fusion Furor*, John Wiley & Sons, May 1991 (nominated for the Pulitzer Prize).

May 1985 -Jan. 1987

Voice of America, a division of the United States Information Agency. International science writer and broadcaster responsible for writing and voicing "New Horizons," a weekly 15-minute science, technology, and medicine radio program, and for a shorter daily feature, "Science Notebook"--science teaching to the world.

Oct. 1982-Jan. 1987

Freelance science writer for MIT's *Technology Review*, *The Washington Post*, *The Planetary Report*, *Air & Space*, *Sky & Telescope*, and other newspapers and magazines. Wrote a self-syndicated newspaper science column, "Starbound."

Aug. 1983-May 1985

MIT Lincoln Laboratory, Lexington, MA.
Staff member, (contract engineer from 8/83 to 8/84), working on Advanced Detection Technology project. Conducted pattern recognition studies of polarimetric millimeter wave radar test data to discriminate and classify ground targets. Extensive programming in Fortran on VAX 11/780 system.

April 1979-May 1985

Astronomy New England, Inc., Holliston, MA
Founder and president of a company that developed and marketed astronomy-related products, including a 3-D star map and a computer-aided telescope. A part-time activity in support of amateur and institutional astronomy. Lecturing with the portable Starlab planetarium system in schools throughout New England, New York, and New Jersey. Affiliation with The Planetary Society's Project Sentinel, a multichannel search for signals from extraterrestrial civilizations.

July 1981-Dec. 1982

Jaycor Systems Engineering Division, Woburn, MA
Systems Engineering Manager supervising work on projects including: Developing a test plan for the U.S. Coast Guard SARSAT satellite; analysis of at-sea gravity gradiometer data, and testing of a microprocessor-controlled radio direction finding triangulation system in Boston harbor.

July 1980-July 1981

Northrop Precision Products Division, Norwood, MA
Senior member of the Technical Staff (Systems Analysis group) working on an inertial North Reference Unit project. Conducted filter design studies and generated code for processing signals from strapdown sensors.

April 1977-April 1979

The Analytic Sciences Corporation (TASC), Reading, MA
Member of the technical staff working on modeling error characteristics of advanced submarine-launched ballistic missile (SLBM) systems. Analysis of gyrocompassing alignment of missile platforms and performance evaluation of complete SLBM systems. Studies of integrating remote sensing and ground-based instrumentation into a unified structure for NASA.

June 1975-April 1977

Harvard University Air Cleaning Laboratory

Harvard School of Public Health, Boston, MA

Senior Research Engineer on an experimental project to develop emergency air-cleaning systems for the Liquid Metal Fast Breeder Reactor (LMFBR). Computer modeling of aerosol properties and designing prototype air cleaning systems. Graduate level teaching in air pollution control courses.

Sept. 1970-April 1977

Hughes Research Laboratories, Malibu, CA

Acted as a consulting astronautical engineer in absentia and on site in Malibu on advanced space propulsion systems, rotating gravity gradiometer instrumentation for satellites, evaluating scientific instruments for planetary space missions, and the scientific study of the radio search for extraterrestrial civilizations.

Sept. 1970 -June 1971

Substitute math, science, physics, and biology teacher in the school systems of Waltham, Wellesley, and Newton, Massachusetts.

Summer 1968

Charles Stark Draper Laboratory, Cambridge, MA

Technical staff assistant in Apollo Systems Test Group, aiding in tests of Project Apollo lunar mission guidance equipment.

Society

Memberships:

- American Institute of Aeronautics and Astronautics (1970-)
- Fellow, The British Interplanetary Society
- American Association for the Advancement of Science
- Society for Scientific Exploration
- American Chemical Society

Honors:

- Tau Beta Pi National Engineering Honorary Society (1968-)
- Sigma Xi, Scientific Research Society of North America(1975)
- Secretary of MIT Class of 1969 (1984 - present). Prepare monthly class notes for MIT *Technology Review*.
- *The Starflight Handbook* was chosen one of the ten best astronomy books of the year (1989) by the prestigious Astronomical Society of the Pacific.
- *Fire from Ice* was one of only two John Wiley & Sons books nominated for a Pulitzer Prize in 1991.
- Cold Fusion Technical Advisor to *The Saint* (Paramount Pictures, 1997)
- Co-writer of video, *Cold Fusion: Fire from Water*, 1999.

Personal: Married, two children.

Publications: Extensive bibliography of general and technical publications will be provided on request.

Eugene F. Mallove, Sc.D. ***Bibliography of Popular and Technical Works***

Books:

Mallove, E.F., **Fire from Ice: Searching for the Truth Behind the Cold Fusion Furor**, John Wiley & Sons, New York, May, 1991 (Nominated for Pulitzer Prize).

Sykes, S.C. and E.F. Mallove, **Red Genesis**, Book 1 of The New Wave (Science Fiction) Series, Bantam Books, New York, 1991. (Mallove provided the non-fiction section about Mars exploration and terraforming.)

Mallove, E.F., Editor and contributor to the Physics Section of the **Almanac of Science and Technology**, Harcourt Brace Jovanovich, 1991.

Mallove, E.F. and Gregory Matloff, **The Starflight Handbook: A Pioneer's Guide to Interstellar Flight**, John Wiley and Sons, New York, August, 1989.

Mallove, E.F., **The Quickening Universe: Cosmic Evolution and Human Destiny**, St. Martin's Press, New York, November, 1987.

Other Articles and Technical Publications:

Mallove, E.F., as Editor-in-Chief and publisher of *INFINITE ENERGY: Cold Fusion and New Energy Technology* Magazine, numerous editorials, reviews, and technical assessments. Premier issue, March/April 1995 (by September 2000, 32 issues published); the magazine is now in 38 countries, 2,500+ readers, 5,000/month printed).

Mallove, E.F., Foreword to *Nuclear Transmutation: The Reality of Cold Fusion*, book by Dr. Tadahiko Mizuno, published by Infinite Energy Press, December, 1998 (English translation of the Japanese edition).

Mallove, E.F., "Cold Fusion: The Miracle is No Mistake," *Analog Magazine*, July/August 1997, pp.53-73.

Mallove, E.F., "Cold Fusion: Life After Death," in *Frontier Perspectives*, Vol.4, No.1, Fall, 1994, pp.14-18.

Mallove, E.F., Numerous articles and columns in "Cold Fusion" Magazine -- May, June, and July/August 1994 issues.

Mallove, E.F., "Cold Fusion: The High Frontier -- Implications for Space Technology," A Paper Delivered at the Fourth International Conference on Cold Fusion - ICCF4, Maui, Hawaii, December 8, 1993 (Will appear in shortened form in Proceedings of ICCF4, 1994).

Mallove, E.F., "Are the World's Energy Problems Over? (Yes)" *Leaders Magazine*, January-February-March, 1993, Volume 16, No.1, pp. 20-23.

Mallove, E.F., "Cold Fusion Slips Away," Correspondence published in *The New York Times*, March 9, 1993, A18.

Mallove, E.F., "Cold Fusion Lives," correspondence, *Photonics Spectra*, January, 1993, Vol.27, Issue 1, pp.10-11.

Mallove, E.F., Review of *The Big Bang Never Happened* (by Eric J. Lerner, Random House), *Sky & Telescope*, November 1991, pp.492-493.

Mallove, E.F., Several hundred science and technology articles appearing in the official MIT newspaper *Tech Talk*, from September 1987 through June 1991.

Mallove, E.F., Joint book review in *Air & Space*, December 1990/January 1991: *The SETI Factor: How the Search for Extraterrestrial Intelligence is Changing Our View of the Universe and Ourselves* (by Frank White, Walker and Company, 1990) and *SETI Pioneers: Scientists Talk About Their Search for Extraterrestrial Intelligence* (by David W. Swift, University of Arizona Press, 1990).

Mallove, E.F., "Wormholes"; "Quantum Drives"; and "Starwisps" in *Final Frontier*, May/June 1990, pp.28-30.

Mallove, E.F., "Once Upon a Moon Race: Six U.S. professors discovered the technological remains of the Soviet Union's abandoned manned lunar landing program," *Ad Astra*, February 1990, Volume 2, Number 2, pp.14-18.

Mallove, E.F., Review of *The Cosmic Blueprint* (by Paul Davies, Simon & Schuster, Inc., New York, 1988), *Sky & Telescope*, August 1989, p.164, 166.

Mallove, E.F., "The Self-Reproducing Universe," *Sky & Telescope*, Vol.76, No.3, September 1988, pp.253-256.

Matloff, G.L. and E.F. Mallove, "Alien Starship Detectability: Bursters and Skidmarks," to be presented at the 39th *International Astronautical Federation Congress*, Bangalore, India, October 8-15, 1988.

Matloff, G.L. and E.F. Mallove, "The Laser Electric Ramjet: A Near Term Interstellar Propulsion Alternative," presented at *AIAA/ASME/SAE/ASEE 24th Joint Propulsion Conference*, Boston, MA, July 11-13, 1988.

Mallove, E.F., "Accelerating the Search for Extraterrestrial Intelligence," *Issues in Science and Technology*, Volume IV, Number 1, 1987.

Mallove, E.F., "The Cosmos and the Computer," *Computers and Science*, Vol. 1., No.2, July/August, 1987.

Mallove, E.F., "The Computer Challenge of the Human Genome," *Computers and Science*, cover feature article for the premier issue, May/June 1987.

[Note: Articles in The Washington Post "Outlook" section by Eugene Mallove have been reprinted in The Sacramento Bee, The Miami Herald, The Cleveland Plain Dealer, Newsday (L.I., New York), The Hartford Courant, The Houston Chronicle, and numerous other papers subscribing to the Post's wire service.]

Mallove, E.F., "Gaia," The Washington Post, February 1, 1987.

Mallove, E.F., "Do We Control the Universe's Fate?" The Washington Post, November 30, 1986.

Mallove, E.F., "Forward to the Stars!" *Air & Space*, 1987 human interest article about physicist and science fiction writer Dr. Robert L. Forward.

Mallove, E.F., "A Radio Telescope Larger than Earth," *Air & Space*, accepted for publication in 1988.

Mallove, E.F., "How Did Survival of the Melodious Give us Mozart?" *The Washington Post*, March 16, 1986.

Mallove, E.F., review of *Pioneering Space* by James Oberg and Alcestis Oberg, *Air and Space Magazine*, April/May 1986, pp. 121-122.

Mallove, E.F., "Anniversary Day," *Journal of the British Interplanetary Society*, April 1986, Vol.39, Number 4, p.146, a tribute to the Challenger astronauts.

Mallove, E.F., "Einstein's God," *The Washington Post* ("Outlook"), December 22, 1985.

Mallove, E.F., "The Universe: Chance or Design?" *The Washington Post* ("Outlook"), October 20, 1985.

Mallove, E.F., Over 100 science and technology radio broadcast scripts and recorded interviews for the Voice of America, from May 1985 through December 1986. Program format: 20 minute weekly New Horizons programs and daily Science Notebook (two to four-minute) programs.

Mallove, E.F., "The Bombarded Earth," *Technology Review*, July 1985, pp. 64-69.

Mallove, E.F., "It May Be a Small World, but Wait," *The Washington Post* ("Outlook"), June 23, 1985.

Mallove, E.F., "The Serious Notion That Time Could Go Backward," *The Washington Post* ("Outlook"), April 21, 1985.

Mallove, E.F., "Gravity: Is the Force That Makes the Apple Fall the Clue to Creation?" *The Washington Post* ("Outlook"), March 3, 1985.

Mallove, E.F., "The Greening of Mars: Will 'Martians' Live on a New Earth?," *The Washington Post* ("Outlook"), December 16, 1984.

Mallove, E.F., "The Cosmic Riddle: How Rocks and Stars Became Flesh and Blood," *The Washington Post* ("Outlook"), October 21, 1984.

Mallove, E.F., Review of *Three Degrees Above Zero: Bell Labs in the Information Age* (by Jeremy Bernstein, Scribners, New York, 1984), *The Washington Post*, ("Bookworld"), October 8, 1984.

Mallove, E.F., "The Inevitable Asteroid: The Way Our World Will End?" *The Washington Post* ("Outlook"), August 26, 1984.

Mallove, E.F., "Our Universe, Created from Nothing", *The Washington Post* ("Outlook"), June 3, 1984. Also in: *The Washington Post National Weekly Edition*, and in the *International Herald Tribune*.

Mallove, E.F., "Finally a Serious Search for Intelligent Beings in Space", *The Washington Post* ("Outlook"), February 5, 1984.

Mallove, E.F., "Renaissance in the Search for Galactic Civilizations," *Technology Review*, Vol.87, No.1, January 1984, 48-55.

Mallove, E.F., "Starflight: The Ultimate Voyage", *Technology Review*, Vol.87, No.1, January 1984, 60-61.

Mallove, E.F., "STARBOUND: THE WONDER OF SPACEFLIGHT AND ASTRONOMY", a series of newspaper columns that have appeared in a few small newspapers in 1983 and 1984, titles include: "Isaac Newton", "First Men Around the Moon", "SARSAT", "Weightlessness", "The Zoo Hypothesis", "Why Is It Dark At Night?", "Landing in Hell", "The Twin Paradox", "Panspermia", "Gemini Rendezvous", "Lifebeam", "Project Ozma", "The Andromeda Galaxy", "Space Ark to the Stars", "The Age of the Universe", "Measuring the Diameter of the Sun", "The Planet Vulcan", and "Falling Around the Earth".

Matloff, G.L. and Mallove, E.F., "The Interstellar Solar Sail - Optimization and Further Analysis," *JBIS* (Journal of the British Interplanetary Society), May 1983, Vol.36, No.5, 201-209.

Mallove, E.F., "Gravity Sensor Systems At-Sea Evaluation Program Development," JAYCOR Technical Report, TR-2251-01-01, September 20, 1982.

Mallove, E.F. and Davis, Marc, "Table-Top Universe," unpublished paper describing design and construction of a cosmological 3-D map of galaxies now on display at the Center for Astrophysics, Cambridge, MA.

Mallove, E.F., United States Coast Guard Massachusetts Bay Direction Finding Triangulation Test Results," JAYCOR Technical Report, TR-2236-07-01, September 10, 1982.

Mallove, E.F., "Classification and Statistical Analysis of ELT/EPIRB Baseline Reference Data," JAYCOR Report TR-2236-01-03, November 17, 1981.

Mallove, E.F. and England, K.W., "United States Coast Guard SARSAT Test Implementation Plan," JAYCOR Report TR-2236-01-02, October 30, 1981.

Mallove, E.F., "A Computational Method for Nuclear Weapon Effectiveness Against Hard Targets," Technical Information Memorandum, EFM-1, The Analytic Sciences Corporation, 1979.

Bar-Itzhack, I.Y. and Mallove, E.F., "Accurate INS Transfer Alignment Using a Monitor Gyro and External Navigation Measurements," *IEEE Transactions on Aerospace and Electronic Systems*, Vol. AES-16, No.1, January 1980, 53-64.

Matloff, G.L. and Mallove, E.F., "Solar Sail Starships: The Clipper Ships of the Galaxy," *JBIS*, Vol.34, No.9, September 1981, 371-380.

Mallove, E.F., Forward, R.L., Paprotny, Z., and Lehmann, J., "Interstellar Travel and Communication: A Bibliography," a special issue of *The Journal of the British Interplanetary Society*, Vol.33, No.6, June 1980, 201-248, the complete issue.

Matloff, G.L., and Mallove, E.F., "The First Interstellar Colonization Mission," *JBIS*, Vol.33, No.3, March 1980, 84-88.

Mallove, E.F., Forward, R.L., and Paprotny, Z., "Bibliography of Interstellar Travel and Communication - April 1977 Update," JBIS, Vol.31, No.6, June 1978, 225-234.

Mallove, E.F., Connors, M., Forward, R.L., and Paprotny, Z., "A Bibliography on the Search for Extraterrestrial Intelligence," NASA Reference Publication 1021, March 1978.

Mallove, E.F., Forward, R.L., and Paprotny, Z., "Bibliography of Interstellar Travel and Communication - April 1977 Update," Hughes Research Laboratories, Research Report 512, September 1977.

Mallove, E.F., "Scissors - A New Way to the Stars," unpublished concept paper for an interstellar propulsion system, July 17, 1976.

Hinds, W. and Mallove, E.F. "Acoustic and Turbulent Agglomeration of Sodium Aerosol," *Journal of Aerosol Science*, 1977.

Hinds, W., Mallove, E.F., and First, M.W., "Density and Shape Factor of Sodium Aerosol," Final Report for October 1, 1975 through January 31, 1977, February 1977, Dept. of Environmental Health Sciences, Harvard School of Public Health.

Mallove, E.F., Hinds, W.C., and First, M.W., "Direct In-Vessel Applications Experiments at Harvard Air Cleaning Laboratory," Annual Report for October 1, 1975 through January 31, 1977, February 1977.

Mallove, E.F., "Experimental Investigation of Emergency Direct In-Vessel Air Cleaning Systems for the Liquid Metal Fast Breeder Reactor," Aerosol Conference at Chapel Hill, NC, August 30, 1976.

Mallove, E.F., Forward, R.L., and Paprotny, Z., "Bibliography of Interstellar Travel and Communication - August 1975 Update," JBIS, Vol.29, Nos. 7 and 8, July-August 1976, 494-517.

Hinds, W. and Mallove, E.F., and First, M.W., "Evaluation of In-Vessel Air Cleaning Systems for an LMFBFR," Proceedings of the 14th ERDA Air Cleaning Conference, Vol.2, February 1977, 927-943.

Mallove, E.F. and Hinds, W.C., "Aerosol Measurement by Combined Light Scattering and Centrifugation," *Journal of Aerosol Science*, 1976, Vol.7, 409-423.

Mallove, E.F. (Contributing author and editor), "Health Research Needs and Energy Development," a report prepared for the National Science Foundation by the staff of the Harvard School of Public Health, February 1976.

Cooper, D.W., Parker, L.W., and Mallove, E.F. "Overview of EPA/IERL-RTP Scrubber Programs," Environmental Protection Agency Report, EPA-600/2-75-054, September 1975.

Mallove, E.F. (Contributing author and consultant), "Advanced Propulsion Concepts Study: Comparative Study of Solar Electric Propulsion and Laser Electric Propulsion," Hughes Research Laboratories, Final Report, June 1975.

Mallove, E.F., "Aerosol Measurement by Combined Light Scattering and Centrifugation," Doctoral Thesis for Department of Environmental Health Sciences, Harvard University School of Public Health, May 1975.

Mallove, E.F. and Forward, R.L., "Bibliography of Interstellar Travel and Communication - 3," JBIS, Vol.28, No.6, June 1975, 405-434.

Mallove, E.F., and Forward, R.L., "Bibliography of Interstellar Travel and Communication - 2," JBIS, Vol.28, No.3, March 1975, 191-219.

Mallove, E.F. and Forward, R.L., "Bibliography of Interstellar Travel and Communication - 1," JBIS, Vol.27, No.12, December 1974, 921-943.

Mallove, E.F., Caren, L.D., and Forward, R.L., "A Bibliography of Interstellar Communication," in *Interstellar Communication: Scientific Perspectives*, Cyril Ponnamperna and A.G.W. Cameron (editors), Houghton Mifflin Company, Boston, 1974, 187-226.

Mallove, E.F. and Forward, R.L., "Bibliography of Interstellar Travel and Communication - 1972," Hughes Research Laboratories Research Report 460, November 1972.

Mallove, E.F., "An Improved Dynamic Analysis of the Second Order Gradiometer," Hughes Research Laboratories Research Report 451, February 1972.

Mallove, E.F. and Forward, R.L., "Bibliography of Interstellar Travel and Communication," Hughes Research Laboratories Research Report 439, May 1971.

Mallove, E.F., "Feasibility of Investigating Saturn's Rings with a Reflecting Dipole Cloud," unpublished concept paper submitted to Hughes Research Laboratories for the Jupiter-Saturn-Pluto 1976/1977 Missions, December 31, 1970.

Mallove, E.F., "A Cyclone Containment Model of the Liquid Core Nuclear Rocket," Master of Science Thesis, Department of Aeronautics and Astronautics, MIT, August 1970.

Mallove, E.F. and Kornberg, J.P., "A Minimum Weight Emergency Lunar Escape Vehicle," *Tech Engineering News*, April 1970, 17-20.

Mallove, E.F., "System Comparisons of Direct and Relay Satellite Communications for Mars Surface Probes," MIT Course 16.45J Review Report, January 20, 1970.

Mallove, E.F., "Fusion Ramjet Propulsion for Interstellar Flight: A Critical Review," MIT Course 16.561 Project Report, January 15, 1969, Mallove, E.F., "Gravity Gradient Sensors for Space Navigation and Exploration," MIT Course 16.41 Research Paper, December 1968.

Mallove, E.F., "Magnetic Field and Corpuscular Radiation Monitoring Instrument Complement," Project Galileo, Interim Report, April 23, 1968, 16.74 MIT Advanced Space Systems Engineering, 36-40.

Mallove, E.F., "Visualization of Interplanetary Periodic Orbits," Final Report on 16mm film generated in MIT Course 16.62 Projects Laboratory, December 1968.

Mallove, E.F., question posed to Carl Sagan at AAS/AAAS Symposium, concerning possible artificial moons of Mars, *Exobiology: The Search for Extraterrestrial Life*, Vol.19, AAS Science and Technology Series, M.M. Freundlich and B.M. Wagner (editors), December 30, 1967, 168-169.

Mallove, E.F., "An Experimental Study of Free Jet Phenomena," Technical Report, National Science Foundation., 1964, August.