VITA

CHARLES L. MADER

NAME: Charles Lavern Mader **BIRTHDATE:** August 8, 1930

HOME ADDRESS: 1049 Kamehame Drive, Honolulu, HI 96825

EDUCATIONAL BACKGROUND

B.S. and M.S. from Oklahoma State University, Stillwater, OK
Ph.D. from Pacific Western University, Encino, CA

PROFESSIONAL SOCIETIES:

American Chemical Society
American Physical Society
Combustion Institute
Sigma Xi
Tsunami Society
Marine Technology Society

PROFESSIONAL RECOGNITIONS:

Fellow of American Institute of Chemists

Fellow of the Los Alamos National Laboratory

Los Alamos Scientific Laboratory Distinguished Performance Award, 1980

"Certified Professional Chemist" recognition from the National Certification Commission in Chemistry and Chemical Engineering

International Union of Geodesy and Geophysics, Tsunami Commission Award for Contributions to Tsunami Research, 1985

Consulting Professor, Beijing Institute of Technology, Beijing, China

Senior Fellow, Joint Institute for Marine and Atmospheric Research, University of Hawaii, Honolulu, Hawaii

Visiting Research Professor, Center for Explosive Technology Research, New Mexico Institute of Mining and Technology, Socorro, New Mexico

Adjunct Professor of Physics, University of New Mexico, Albuquerque, New Mexico

Adjunct Professor of Oceanography, University of Hawaii, Honolulu, HI.

Affiliate Professor of Marine Science, Hawaii Pacific University, Kaneohe, HI.

Editor, *Science of Tsunami Hazards* published by the International Tsunami Society 1982-2006.

ARL Technical Assessment Board of National Academy of Sciences - 2000-2003.

Adjunct Distinguished Scientist of Energetics Research Institute (EnRI) - Nanyang Technical University, Singapore - 2010 – .

Listed in American Men of Science, Who's Who in Technology Today, Who's Who in the West, Who's Who in America, Who's Who in Science and Engineering, Men of Achievement and Who's Who in the World.

PUBLICATIONS

BOOKS

Numerical Modeling of Explosives and Propellants - Third Edition, Charles L. Mader (CRC Press, Boca Raton, 2007).

Numerical Modeling of Water Waves - Second Edition, Charles L. Mader (CRC Press, Boca Raton, 2004).

Numerical Modeling of Explosives and Propellants - Second Edition, Charles L. Mader (CRC Press, Boca Raton, 1997).

Numerical Modeling of Water Waves, Charles L. Mader (University of California Press, Berkeley, 1988).

Numerical Modeling of Detonations, Charles L. Mader (University of California Press, Berkeley, 1979), Russian Edition (MIR Press, Moscow, 1985).

LASL PHERMEX Data, Volumes I, II, III, Charles L. Mader (University of California Press, Berkeley, 1980).

Los Alamos Explosive Performance Data, Charles L. Mader, Sharon Crane, and James N. Johnson (University of California Press, Berkeley, 1982).

BOOK CHAPTERS

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"Detonation Performance," Charles L. Mader, a chapter in **Organic Energetic Compounds**, edited by Paul L. Marinkas (Nova Science Publishers, Inc., Commack, New York, 1996),

"Introduction to Energetic Materials" and "Numerical Modeling of Impact Involving Energetic Materials," Charles L. Mader, Chapters 11 and 14 in **High Velocity Impact Dynamics**, edited by John Zukas (Wiley) 1990.

"Numerical Calculations of Explosive Phenomena," Charles L. Mader, a chapter in **Computers and Their Role in the Physical Sciences**, edited by A. Taub and S. Fernbach (Gordon & Breach Science Publishers, New York, 1970), p. 385.

PUBLICATIONS

"Tsunami Hazards to Hawaii from M9+ Event Similar to the 2004 Indian Ocean Tsunami," Charles L. Mader, Proceedings of the Pacific Congress on Marine Science and Technology, PACON 2010, June 1-5 (2010).

"Modeling Oblique Initiation of Insensitive Explosives," Charles L. Mader, Michael Gittings, Fourteenth International Symposium on Detonation, (2010).

"Numerical Modeling of Crater Formation by Metorite Impact and Nuclear Explosion," Charles L. Mader, *Festschrift for Dr. Klaus Thoma ,* Springer (2009) .

"Numerical Modeling of Munroe Jets," Charles L. Mader and Michael L. Gittings, *Proceedings of the 15th Topical Conference on Shock Compression of Shocked Matter,* American Institute of Physics (2007) .

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"Modeling the 1958 Lituya Bay Mega-Tsunami," Charles L. Mader and Michael L. Gittings, *Science of Tsunami Hazards* **20**, 241 (2002).

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