

## MELBOURNE G. BRISCOE

### ADDRESS

[available on request]  
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**BORN** Akron, Ohio; 17 July 1941

### EDUCATION

1959		Marietta High School Marietta, Ohio
1963	B.S.M.E.	Northwestern University Evanston, Illinois - mechanical engineering and applied mathematics
1967	Ph.D.	Northwestern University Evanston, Illinois - fluid dynamics
1967-68		Post-Doctoral Appointment Von Karman Institute for Fluid Dynamics Rhode-St-Genese, Belgium - optical and numerical methods in fluid dynamics
1968-69		Post-Doctoral Appointment NATO SACLANT ASW Research Centre La Spezia, Italy - air-sea interactions, surface waves, internal waves

### PROFESSIONAL ASSOCIATIONS

American Geophysical Union, The Oceanography Society (Secretary), American Meteorological Society

### AWARDS, HONORS, SPECIAL TRAINING

Bausch and Lomb Science Award (1959), National Merit Scholar (1959-63), National Defense Education Act Fellow (1963-67), Von Karman Fellow (1967-68), NATO Science Committee Fellow (1968-69), Department of the Navy Superior Civilian Service Award and Medal (1993), Federal Executive Institute Class 196 (1993), Who's Who in America (50<sup>th</sup> Edition), American Men and Women of Science (20<sup>th</sup> Edition), David Packard Distinguished Lecturer (2002), MBTI Certified Practitioner, Presidential Rank Senior Executive Service Award (2004).

### EDITORIAL ACTIVITIES

Editor, Journal of Physical Oceanography (1985-86)  
Associate Editor, J. Phys. Oceanography (1977-84, 1987-90)  
Associate Editor, Journal of Geophysical Research (1974-77)  
Editor, Oceanic Internal Waves, AGU (1985)  
Member, AGU Journals Board (1982-84)  
Member, AIP Committee on Awards (Science Writing) (1995-2001)  
McGraw-Hill Encyclopedia of Science and Technology, Consulting Editor (1999-present)

## **PRINCIPAL CONSULTING ACTIVITIES**

EG&G (1976-77)  
Naval Research Advisory Committee (1977)  
Physical Dynamics, Inc. (1978-79)  
Applied Physics Laboratory, JHU (1978-79)  
NASA (1979-80)  
Science Applications International Corp. (1979-86)  
NAS/NRC, Ocean Studies Board (1986-87)  
NAS/NRC, Panel Member, Water Safety and Transportation Board (2002)

## **EMPLOYMENT HISTORY**

Summer 1960 Gas Dynamics Laboratory  
Northwestern University, Evanston, IL  
- high-speed photography and general lab help

Summer 1961 Aerospace Division  
B.F. Goodrich Company, Akron, OH  
- heat-transfer on brakes for dirt trucks

Summer 1962 Mechanical Engineering Department  
Northwestern University, Evanston, IL  
- analog computer heat-transfer study

Summer 1963 Space Power Supply Division  
Aerojet-General Corporation, Azusa, CA  
- liquid-metal heat transfer

Summer 1967 Marine Division  
Westinghouse Corp, Sunnyvale, CA  
- blast waves during silo launch of missiles

1969-1972 Oceanography Group  
SACLANT ASW Research Centre, La Spezia, Italy  
- air-sea interactions, surface/internal waves, ocean-acoustic experiments

1972-1989 Physical Oceanography Department  
Woods Hole Oceanographic Inst, Woods Hole, MA  
- Assistant Scientist, 1972-76  
- Associate Scientist, 1977-89 (tenured 1980)  
- taught graduate courses in Time Series Analysis, Surface Waves, Internal Waves, Air-Sea Interaction  
- research on surface waves, internal waves, fronts, eddies, air-sea interactions  
- technology development of ocean data telemetry and deep-sea buoy systems

1987-1989 Office of Naval Research (Code 1122ML) and  
Office of Naval Technology (Code 228)  
Arlington, VA  
- Intergovernmental Personnel Assignment (IPA) from Woods Hole Oceanographic Inst.  
- managed programs in surface waves, flow over abrupt topography, Heard Island  
- responsible directly for about \$5M/year

- 1989-1992 Director, Applied Oceanography and Acoustics Division  
Office of Naval Research (Code 124)  
- Supervised Division of 12 professionals, one military, 4 support personnel  
- managed programs in acoustic oceanography, surface reverberation, Heard Island, and marine mammals  
- responsible directly for about \$3-5M/year and indirectly for about \$60M/year.
- 1992-1995 Director, Office of Ocean and Earth Sciences  
(Senior Executive Service position, ES-03)  
National Ocean Service  
National Oceanic and Atmospheric Administration  
Silver Spring, MD  
- Supervised staff of 11 professionals and 5 support personnel, and manage an office of 220 people in 3 locations in the Washington DC area and 3 other U.S. locations  
- responsible for programs in ocean and Great Lakes water-level measurement, circulation studies of estuarine and coastal waters, predictions of tides and tidal currents, operational marine and ice forecasts, satellite altimetry, and terrestrial and celestial reference frame determination  
- responsible for development of the U.S. contribution to the Global Ocean Observing System (GOOS)  
- U.S. Chair of the U.S.-Japan bilateral cooperation agreement on research and observations in the Pacific Ocean
- 1995-1996 Director, U.S. GOOS Project Office  
National Ocean Service  
National Oceanic and Atmospheric Administration  
Silver Spring, MD  
- responsible for development of the U.S. contribution to the Global ocean Observing System (U.S. GOOS)  
- U.S. Chair of the U.S.-Japan bilateral cooperation agreement on research and observations in the Pacific Ocean  
- Director of the interagency project office for U.S. GOOS
- 1996-2007 Director, Ocean, Atmosphere and Space Research Division (Code 322)  
(Senior Executive Service position)  
Ocean Battlespace Sensing Science & Technology Department  
Office of Naval Research  
Arlington, Virginia  
- Supervise Division of approximately 20 professionals and 4 support personnel.  
- Responsible for basic and applied research programs in physical oceanography, environmental optics, biological and chemical oceanography, coastal geosciences, and marine meteorology.  
Tri-Service DoD Coordinator for Battlespace Environments.  
ONR Representative to the National Oceanographic Partnership Program.  
Member: OSTP Joint Subcommittee on Ocean Science and Technology.  
Vice-Chair: OSTP Interagency Working Group on Ocean Observations.  
Co-Chair: OSTP Interagency Working Group on Ocean Partnerships.  
Federal Official: Ocean Research and Resources Advisory Panel.

## CURRENT POSITION

President, OceanGeeks, LLC

An environmental consulting company and information provider specializing in the distillation of ocean science topics, information on ocean policy issues, advice on forming and maintaining ocean partnerships and collaborations, and best-practices in the translation of ocean research results to practical applications.

## PROFESSIONAL INTERESTS

oceanography, air-sea interactions, ocean mixing, acoustics, telemetry, short-range climate predictions, basic-to-applied research transitions, research management, societal applications of oceanography, science policy, scientist-group dynamics and meeting facilitation, conflict resolution, team building

## OUTSIDE/ADDITIONAL INTERESTS AND CERTIFICATIONS

Scottish Country Dancing (Royal Scottish Country Dance Society, Certificated Teacher)  
Amateur Radio (Extra Class license; W1IAY)  
SCUBA diving (PADI Master Instructor #172303, TDI Technical Diving Instructor #6237)  
Myers-Briggs Type Inventory (MBTI) qualified trainer and Certified Practitioner #C12680

## PUBLICATIONS AND REPORTS

Author or co-author of:

approximately 35 refereed publications  
approximately 65 unrefereed publications  
approximately 35 technical reports

Selected publications, since 1983:

Briscoe, M.G. (2005): The U.S. Commission on Ocean Policy and the White House Ocean Action Plan, An Update. **Oceanography**, **18**(3), 9-13.

Briscoe, M., A.Clark, P.Jumars, M.McNutt, and J.Yoder (2004): The U.S. Commission on Ocean Policy: Why You Should Care, And What You Can Do. **Oceanography**, **17**(3), 6-11.

Briscoe, M.G. (2003): Science, Technology, and People. **Oceanography**, **16**(1), 4-10.

Briscoe, M.G. (2003): Transition: the Movement of Understanding from Process Studies to Ocean Forecast Models. In: **Near-Boundary Processes and their Parameterization**. Proceedings 'Aha Huliko'a Hawaiian Winter Workshop, January 21-24, 2003. University of Hawaii, SOEST Special Publication, pp. 249-253.

Briscoe, M.G., and R.B. Carmichael (2002): Comments on Technology Transfer in Diving. **Oceanography**, **15**(2), 102-105.

Nowlin, Worth D., Jr., Melbourne Briscoe, Neville Smith, Michael J. McPhaden, Dean Roemmich, piers Chapman, and J. Frederick Grassle (2001): Evolution of a Sustained Ocean Observing System. **Bull. American Met. Soc.**, **82**(7), 1369-1376.

Orr, M.H., L.R. Haury, P.H. Wiebe, and M.G. Briscoe (2000): Backscatter of high-frequency (200 kHz) acoustic wavefields from ocean turbulence. **J. Acoustical Soc. Amer.**, **108** (4), 1595-1601.

Muller, P., and M.G. Briscoe (2000): Diapycnal Mixing and Internal Waves. **Oceanography**, **13**(2), 98-103.

Briscoe, M.G. (1999): Short-term Directional Variability of the Continuum Range in the Deep-Ocean internal Wave Field. In: **Dynamics of Oceanic Internal Gravity Waves, II**, Proceedings Hawaiian Winter Workshop, University of Hawaii at Manoa, January 18-22, 1999.

Briscoe, M.G., and T. H. Kinder (1998): ONR's Accelerated Research Initiatives (ARIs). **MTS Journal**, **32** (3), 81-84.

Blumenthal, M.B., and M.G. Briscoe (1995): Distinguishing Propagating Waves and Standing Modes: An Internal Wave Model. **J. Physical Oceanography**, **25**, 1095-1115.

Briscoe, Melbourne, and David Evans (1993): The Application of Marine Sciences in the Coming Decade. **Oceanography**, **6**(3), 138-140.

Briscoe, M.G. (1991): Deterministic-stochastic oceanographic descriptions for ocean-acoustic experiments. In: **Ocean Variability and Acoustic Propagation**, edited by J.Potter and A.Warn-Varnas, Kluwer Academic Publishers, The Netherlands, pp.3-22.

Brooks, D.A., and M.G. Briscoe (1991): Tests of long-range ocean data telemetry using frequency-agile HF packet-switching protocols. **J. Atmospheric and Oceanic Technology**, **8**, 856-868.

Lippert, A., and M.G. Briscoe (1990): Observations and EOF analysis of low-frequency variability in the western part of the Gulf Stream recirculation. **J. Physical Oceanography**, **20**, 646-656.

Kunze, E., M.G. Briscoe, and A.J. Williams III (1990): Interpreting shear and strain fine structure from a neutrally buoyant float. **J. Geophysical Research**, **95**, 18111-18125.

Briscoe, M.G., and D.E. Frye (1987): Motivations and methods for ocean data telemetry. **MTS Journal**, **21**, 42-57.

Briscoe, M.G. (1984): Tides, solitons, and nutrients. **Nature**, **312**, 15.

Briscoe, M.G., and R.A. Weller (1984): Preliminary results from the Long-Term Upper-ocean Study (LOTUS). **Dynamics of Atmospheres and Oceans**, **8**, 243-265.

Briscoe, M.G. (1983): Observations on the energy balance of internal waves during JASIN. **Phil. Trans. Roy. Soc. London, A**, **308**, 389-405.

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