

**PETER A. RONA**

Institute of Marine and Coastal Sciences and Department of Geological Sciences  
Rutgers University  
71 Dudley Road, New Brunswick, N.J. 08901-8521  
732-932-6555 x 241; Fax 732-932-6557 E-mail: rona@imcs.rutgers.edu

**EDUCATION**

Ph.D. Yale University 1967 (Marine Geology and Geophysics; J.W. Gibbs, J.D. Dana, and Sheffield Fellowships)  
M.S. Yale University 1957 (Geology)  
A.B. Brown University 1956 (Geology)

**POSITIONS**

1994-present Professor of Marine Geology and Geophysics, Rutgers University  
1969-1994 Senior Research Geophysicist, NOAA/AOML  
1970-1996 Adjunct Professor, Rosenstiel School, University of Miami  
1960-1969 Research Associate, Columbia University, Hudson Laboratories  
1957-1959 Exploration Geologist, Standard Oil Company (Exxon)

**EXPERIENCE**

Peter Rona's work is the investigation of ocean ridges and continental margins using geophysical and geological methods. He worked on the structure and stratigraphy of the eastern North American and northwestern African continental margins using seismic, bathymetric and magnetic methods between 1960 and 1972. Since 1972 this work has extended to ocean ridge crest processes with emphasis on the role of seafloor hydrothermal processes in thermal and chemical fluxes and in mineralization. He has initiated and directed multiple projects including the Trans-Atlantic Geotraverse (TAG) and has organized and directed multidisciplinary, multi-institutional, international research teams. He has served as chief or co-chief scientist on research cruises with ships and submersibles almost every year since 1960. He has published over 250 scientific papers, an atlas of the central North Atlantic, co-edited four books, served as associate editor of two leading scientific journals, co-edited five special issues, organized and chaired numerous scientific symposia, serves as a consultant to the United Nations on seafloor resources and the marine environment, and contributes community service including development and leadership of public science centers.

**AWARDS**

Hans Pettersson bronze medal of the Royal Swedish Academy of Sciences (1999)  
NOAA Outstanding Paper (1989)  
Outstanding Presentation, International Marine Minerals Society (1989)  
U.S. Dept. of Commerce Gold Medal for Exceptional Scientific Contributions (1987)  
Francis P. Shepard Medal for Excellence in Marine Geology (1986)  
AAPG Distinguished Lecturer, National Tour (1983-1984)

**PROFESSIONAL MEMBERSHIPS**

American Geophysical Union (Fellow; Associate Editor JGR Solid Earth 1988-1992)  
Geological Society of America (Fellow; Associate Editor 1975-1982)  
Acoustical Society of America (Fellow)  
American Association for the Advancement of Science (Fellow)  
American Association of Petroleum Geologists  
International Marine Minerals Society  
New York Academy of Sciences  
Society of Economic Geologists (Fellow)  
Society of Exploration Geophysicists  
Society of Sigma Xi

## **PROJECT RELATED PUBLICATIONS**

- Butman, B., D. C. Twichell, P. A. Rona, B. E. Tucholke, T. J. Middleton, and J. M. Robb, 2006, Sea Floor Topography and Backscatter Intensity of the Hudson Canyon Region Offshore of New York and New Jersey, *U.S. Geological Survey Open-File Report 2004-1441*, CD-ROM.
- Rona, P. A., Robb, J. M., Butman, B., Scranton, M. I., Kingman, K. E. Tucholke, B. E., and Twichell, D., 2004, Slope instability and gas hydrates in the Hudson Canyon region, U.S., Atlantic continental margin (abs.), *Eos, Trans. American Geophysical Union*, 85 (47), Fall Meeting Supplement, Abstract #OS21E-07, F1024.
- Rona, P. A., 2001, Slope stability on the Hatteras and New Jersey segments of the U.S. Atlantic continental margin (invited abs.), *Eos, Trans. AGU*, 82:20, T21A-09, S405.
- Rona, P. A., 1970, Submarine canyon origin on the upper continental slope off Cape Hatteras, *J. Geology*, 78, 141-152.
- Rona, P. A., 1968, Middle Atlantic continental slope of the United States: deposition and erosion, *Am. Assoc. Petrol. Geol. Bull.*, 53: 1453-1465.
- Rona, P. A., and Clay, C. S., 1967, Stratigraphy and structure along a continuous seismic reflection profile from Cape Hatteras to the Bermuda Rise, *J. Geophys. Res.*, 72: 2107-2130.

## **OTHER PUBLICATIONS**

- Rona, P. A., K. G. Bemis, C. D. Jones, D. R. Jackson, K. Mitsuzawa, and D. Silver, 2006, Entrainment and bending in a major hydrothermal plume, Main Endeavour Field, Juan de Fuca Ridge, *Geophys. Res. Letters*, in press.
- Palmer, D. R., and P. A. Rona, 2005, Acoustical imaging of deep ocean hydrothermal flows, in, H. Medwin, Editor, *Sounds in the Sea, Cambridge University Press*, 551-553.
- Rona, P. A., K. G. Bemis, D. Silver, and C. D. Jones, 2002, Acoustic imaging, visualization and quantification of buoyant hydrothermal plumes in the ocean, *Mar. Geophys. Res.*, 23:147-168.
- Rona, P. A., D. R. Jackson, K. G. Bemis, C. D. Jones, K. Mitsuzawa, D. R. Palmer, and D. Silver, 2002, Acoustics advances study of seafloor hydrothermal flow (feature article), *Eos article, Trans., AGU*, 83(44):497 and 501-502.
- Jackson, D. R., C. D. Jones, P. A. Rona, and K. G. Bemis, 2003, A method for Doppler acoustic measurement of black smoker flow fields, *Geochemistry Geophysics Geosystems*, G<sup>3</sup>, 4 (11): 1095, 1-12.
- Rona, P. A., D. R. Jackson, T. Wen, C. Jones, K. Mitsuzawa, K. G. Bemis, and J. G. Dworski, 1997, Acoustic mapping of diffuse flow at a seafloor hydrothermal site: Monolith Vent, Juan de Fuca Ridge, *Geophys. Res. Letters*, 24:2351-2354.

## **COLLABORATORS PAST 48 MONTHS**

K. G. Bemis, Rutgers University; D. R. Jackson, Applied Physics Lab, University of Washington; C. D. Jones, Applied Physics Laboratory, University of Washington; R. P. Lowell, Georgia Institute of Technology; K. Mitsuzawa, JAMSTEC; D. R. Palmer, NOAA/AOML; B. J. Murton, NOC.

## **GRADUATE ADVISORS**

C. S. Clay, University of Wisconsin (formerly Columbia University)  
K. K. Turekian, Yale University