

# VITAE

## ARIEL A. ROTH

### PERSONAL

Born: July 16, 1927 Geneva, Switzerland  
Family: Wife and two sons  
Citizenship: Naturalized U.S. citizen 1956

### EDUCATION

B.A. Pacific Union College 1948  
M.S. University of Michigan 1949  
Ph.D. University of Michigan 1955  
Additional training in radiation biology, University of California at Berkeley 1956-1957  
Additional training in geology and mathematics, University of California at Riverside 1963 . . . 1969

### EMPLOYMENT

Teaching Assistant, University of Michigan 1949-1950  
Instructor to Associate Professor of Biology, Pacific Union College 1950-1957  
Research Associate, Loma Linda University 1957-1958  
Professor of Biology and Chairman of Biology Department, Andrews University 1958-1963  
Professor of Biology and Chairman of Biology Department, Loma Linda University 1963-1971  
Professor of Biology, Loma Linda University and Acting Director, Geoscience Research Institute 1971-1973  
Professor of Biology and member of Geoscience Research Institute, Loma Linda University 1973 – 1996.  
Director, Geoscience Research Institute 1980 – 1994  
Senior Research Scientist, Geoscience Research Institute 1994 – 1996. Editor of journal ORIGINS 1974-1996.  
Associate Faculty, Department of Earth and Biological Sciences, Loma Linda University 1996+  
Adjunct Professor, Department of Earth and Biological Sciences, Loma Linda University 2008-

### ACADEMIC ACTIVITIES AND HONORS

Atomic Energy Commission Grantee in radiation biology 1960  
National Institutes of Health Grantee for research on metabolism of schistosomes 1961-1963  
Visiting Research Scientist, Hawaii Institute of Marine Biology 1968, 1970  
Visiting Professor, Andrews University Extension in Europe. 1970  
Atomic Energy Commission Grantee for research on coral reefs at Eniwetok 1971, 1972, 1973  
Member, NSF-AEC sponsored Symbios research team to study coral reef metabolism at Enewetak 1971  
Consultant on creation to the California State Board of Education 1971  
Director, Loma Linda University Research Team for underwater research on coral in the Bahamas 1973, 1974 (Sponsored by the National Oceanic and Atmospheric Administration; lived on the ocean floor for 1 week)  
Has given hundreds of lectures over the world, and conducted dozens of geology study field trips in Europe, Australia, New Zealand, and the United States.  
Elected to Who's Who in America 1974  
Chairman, Biblical Research Institute Science Council 1971 - 1991  
Editor: ORIGINS journal 1974 – 1996  
Keynote speaker, public hearing, House Education Committee, State of Oregon 1981  
Witness for the State of Arkansas: Evolution-creation trial 1981  
Science Editor, THESE TIMES 1981 - 1984  
Contributing Editor, MINISTRY 1987 –  
Visiting Professor of Biology, University of Eastern Africa, Baraton 1995  
Visiting Professor of Biology, Spicer College, India 1995  
Adjunct Professor of Science and Religion, SDA Theological Seminary, Andrews University, 1993 - 1996  
Listed in the Templeton WHO'S WHO IN THEOLOGY AND SCIENCE 1996  
Awarded the MEDALLION OF DISTINCTION – the highest award of the Department of Education of the Seventh-day Adventist Church, March 1997  
Visiting Professor of Biology, Caribbean Union College 1997  
Lecturer for the William A. Osborne Distinguished Lecture Series, Caribbean Union College 1997  
Honored Alumnus, Pacific Union College, 1998  
Member, Loma Linda University Councilors 2000-  
Advisory Associate Editor, Perspective Digest 1994-

Recipient: Charles Elliott Weniger AWARD FOR EXCELLENCE 2003

### PROFESSIONAL SOCIETIES

Society of the Sigma XI (honorary)  
Geological Society of America (member)  
Society for Sedimentary Geology (member)

### PUBLICATIONS

Roth, A.A. 1955. Gametogenesis in the final generation of *Schistosomatium douthitti* (Cort, 1914) Price, 1931 (Trematoda: Schistosomatidae). Dissertation Abstracts 15(4):647-648.

Roth, A.A. and E.D. Wagner. 1957. The anatomy of the male and female reproductive systems of *Oncomelania nosophora*. Transactions of the American Microscopical Society 74:52-69.

Roth, A.A. 1958. Book review of Plastic embedding and laminating with C.M.E. - D series polyester resin, by Ernest L. Lutz, Sr. Journal of True Education 21(2):30 (December).

Roth, A.A. 1960a. Aspects of the function of the bursa copulatrix and seminal receptacle in the prosobranch snail *Oncomelania formosana* Pilsbry and Hirase. Transactions of the American Microscopical Society 79: 412-419.

Roth, A.A. and E.D. Wagner. 1960b. The development of sexual maturity in *Oncomelania nosophora* (Robson) snail vector of oriental schistosomiasis. Transactions of the American Microscopical Society 79:429-438.

Roth, A.A. and E.D. Wagner. 1960c. Notes on the production of eggs in *Oncomelania nosophora* and *O. formosana*. Nautilus 73:147-151.

Roth, A.A. and L.N. Hare. 1966. Effect of *Schistosoma mansoni* on amino acid levels in a chemically defined medium. (Abstract) American Society of Parasitologists, 41st Annual Meeting, San Juan, Puerto Rico, p. 60.

Roth, A.A. and H.E. Heidtke. 1966. Removal of schistosomes from hosts with minimal physiological disturbance to the parasite. Transactions of the American Microscopical Society 85:422-426.

Tkachuck, R.D. and A.A. Roth. 1967a. Free amino acids in plasma of mice infected with *Schistosoma mansoni*. (Abstract) American Society of Parasitologists, 42nd Annual Meeting, Tucson, Arizona, p. 29.

Carter, C.E. and A.A. Roth. 1967b. Carbon dioxide fixation in *Schistosoma mansoni*. (Abstract) American Society of Parasitologists, 42nd Annual Meeting, Tucson, Arizona, p. 30.

Roth, A.A. 1969a. Problems in Darwinism. Book review of Mathematical challenges to the neo-Darwinian interpretation of evolution, edited by Paul S. Moorhead and Martin M. Kaplan. Spectrum 1(1):63-67.

Roth, A.A. 1969b. Limitations of the scientific method. In: Coffin, H.G. Creation: Accident or design. Review and Herald Publishing Association, p 369-378.

Roth, A.A. 1970a. What science does and does not teach -- 1. Review and Herald 147(42):6-8.

Roth, A.A. 1970b. What science does and does not teach – 2: reality not identical with observation. Review and Herald 147(43):2-3.

Roth, A.A. 1970c. What science does and does not teach – 3: how to arrive at truth. Review and Herald 147(45):5-6.

- Roth, A.A. 1971a. Effect of various light treatments of calcification rates in *Acropora sp.* (Abstract) R/V Alpha Helix Research Program, 1971, Scripps Institution of Oceanography, San Diego, p. 21.
- Roth, A.A. 1971b. Effect of the addition of nutrients on the variability of calcification rates in a single colony of *Pocillopora damicornis*. (Abstract) R/V Alpha Helix Research Program, 1971, Scripps Institution of Oceanography, San Diego, pp. 21-22.
- Roth, A.A. 1971c. Estimate of carbonate production of some species on Japtan Reef. (Abstract) R/V Alpha Helix Research Program, 1971, Scripps Institution of Oceanography, San Diego, p. 22.
- Johannes, R.E. and 22 other authors including A.A. Roth. 1972. Project Symbios: an examination of the metabolism of some coral reef communities. *BioScience* 22:541-543.
- Roth, A.A. 1974a. Why a publication on origins? *Origins* 1:4-5.
- Roth, A.A. 1974b. Science against God? *Origins* 1:52-54.
- Roth, A.A. 1974c. Factors affecting light as an agent for carbonate production by coral. (Abstract) Geological Society of America Abstracts 6:932.
- Roth, A.A. 1975a. A matter of fairness. *Origins* 2:3-4.
- Roth, A.A. 1975b. The pervasiveness of the paradigm. *Origins* 2:55-57.
- Roth, A.A. 1975c. Old traditions on trial. *Origins* 2:100-103.
- Roth, A.A. 1975d. Turbidites. *Origins* 2:106-107.
- Roth, A.A. 1975e. Some effects of light on calcification in coral. Abstracts of Symposia and Contributed Papers for the Fifty-Sixth Annual Meeting (San Francisco State University, December 26-30, 1975) of the Western Society of Naturalists, p. 29.
- Clausen, C.D. and A.A. Roth. 1975a. Estimation of coral growth rates from laboratory <sup>45</sup>Ca-incorporation rates. *Marine Biology* 33:85-91.
- Clausen, C.D. and A.A. Roth. 1975b. Effect of temperature and temperature adaptation on calcification rate in the hermatypic coral *Pocillopora damicornis*. *Marine Biology* 33:93-100.
- Roth, A.A. 1976a. Zeal and hoaxes. *Origins* 3:63-64.
- Roth, A.A. 1976b. Geological changes and time. *Origins* 3:106-108.
- Roth, A.A. 1977a. The world of nature, and the search for truth. *Review and Herald* 154(7):1, 6-8.
- Roth, A.A. 1977b. Does evolution qualify as a scientific principle? *Origins* 4:4-10.
- Roth, A.A. 1977c. Clastic dikes. *Origins* 4:53-55.
- Roth, A.A. 1977d. Implications of the spread of Darwinism. *Origins* 4:61-63.
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- Smith, A.D. and A.A. Roth. 1977. Carbon dioxide and calcification in the red coralline alga, *Bossiella orbigniana*. (Abstract) Pacific Division, American Association for the Advancement of Science, 58th Annual Meeting, San Francisco State University.
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- Roth, A.A. 1978d. Closed minds and academic freedom. *Origins* 5:61-62.
- Roth, A.A. 1978e. Can evolutionists rescue this one? *Origins* 5:110-112.
- Roth, A.A. 1979a. Does evolution qualify as a scientific principle? *Journal of the Association of Adventist Behavioral Scientists* 2(1-2):1-7. (Reprinted from *Origins*, Volume 4, Number 1, 1977).
- Roth, A.A. 1979b. Is truth dead? *Origins* 6:5-6.
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- Roth, A.A. 1980a. Implications of various interpretations of the fossil record. *Origins* 7:71-86.
- Roth, A.A. 1980b. A origem dos Parasitos. *Folha Criacionista* 22:33-43.
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- Roth, A.A. 1982a. The universal flood debate. *Liberty* 77(6):12-15.
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- Roth, A.A. 1984a. The current controversy over origins. Part I: teaching creation in public schools. *The Journal of Adventist Education* 46(3):30-31, 35-37.
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- Roth, A.A. 1987a. ¿Es científico el catastrofismo? *Ciencia de los Orígenes* 16:3-6. Translated and reprinted from *Ministry* 59(7):24-26.
- Roth, A.A. 1987b. Katastrofit ja tieteellinen ajattelu. *Nyky aika* 91(7):12-17. Translated and reprinted from *Ministry* 59(7):24-26.

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- Roth, A.A. 1987d. Today. *Origins* 14:45-46.
- Roth, A.A. 1987e. The longer look. *Origins* 14:77-78.
- Roth, AA. 1987f. What do Seventh-day Adventist students need to know about science? *Adventist Education*, Feb.-Mar. 1987.
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- Roth, A.A. 1988b. El conflicto entre la Biblia y las extensas edades geológicas. *Ciencia de los Orígenes* 21:1, 2-4. Translated and reprinted from *Origins* 13:64-85.
- Roth, A.A. 1988c. The conflict between the Bible and the long geological ages. *Adventist Review* 165:539-543 (19 May 1988, pp. 19-23).
- Roth, A.A. 1988d. Science, a good place to begin. *Signs of the Times* 115(12):19. Reprinted from *Origins* 14:5-6.
- Roth, A.A. 1988e. Creationists challenge creationists. *Origins* 15:4-5.
- Roth, A.A. 1988f. Truth – an endangered species. *Origins* 15:49-51.
- Roth, A.A. 1988g. Those gaps in the sedimentary layers. *Origins* 15:75-92.
- Roth, A.A. 1988h. El conflicto entre la Biblia y la geología (I). *Revista Adventista*, Sept., pp. 7-9.
- Roth, A.A. 1988i. El conflicto entre la Biblia y la geología (II). *Revista Adventista*, Nov., pp. 22-24.
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- Roth, A.A. 1989a. Arrecifes de coral y cronología. *Ciencia de los Orígenes* 23:3-6.
- Roth, A.A. 1989b. The dishonor of dueling. *Origins* 16:3-7.
- Roth, A.A. 1990a. What is happening to the philosophy of science? *Origins* 17:3-7.
- Roth, A.A. 1990b. Catastrophism – is it scientific? *Geoscience Reports* No. 11.
- Roth, A.A. 1990c. We shall behold him in the wonders of creation. *General Conference Bulletin* 3. *Adventist Review* 167(29):741-743 (9 July 1990, pp. 5-7).
- Roth, A.A. 1990d. Geoscience Research Institute. *Adventist Review* 167(36):980 (26 July - 2 August 1990, p. 20).
- Roth, A.A. 1990e. Flood stories – can they be ignored? *Origins* 17:51-55.
- Roth, A.A. 1990f. Closets full of skeletons. *Origins* 17:74-77.
- Roth, A.A. 1991a. Biblio File: Bones of contention. *Ministry* 64(7):28-29.
- Roth, A.A. 1991b. Comments on Responses of Dickin and Hoogendoorn to 'Gaps in the Sedimentary Layers: Real or Imagined?' *The Pascal Centre Notebook* 1(4):6.
- Roth, A.A. 1991c. Creation holding its own. *Origins* 18:51-52.

- Roth, A.A. 1992a. Nogle spørgsmål vedrørende geokronologi. *Origo* 36:13-19.
- Roth, A.A. 1992b. The Geoscience Research Institute. *Dialogue* 4(2):30-31.
- Roth, A.A. 1992c. The search for an evolutionary mechanism. *Origins* 19:3-5.
- Roth, A.A. 1992d. Clastic pipes and dikes in Kodachrome Basin. *Origins* 19:44-48.
- Roth, A.A. 1992e. Fossils and compassion. *Origins* 19:51-52.
- Roth, A.A. 1992f. Life in the deep rocks and the deep fossil record. *Origins* 19:93-104.
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