

Name Charles E. Shaw
Title Visiting Assistant Professor of Geology
Department Geography and Geology
College Arts and Sciences

Degrees Earned

Degree, Major, (minor – optional), Institution, Year
Ph.D. Geology, Metamorphism and structural geology, Brown, 1967
Ms.C., Geology, Brown, 1959
B.A., Geology, University of New Hampshire

Peer-Review Publications

Kelley, Kristin N., John E. Mylroie, Christopher M. Moore, Laura R. Collins, Lica Ersek, Joan Lascu, Monica J. Roth, Paul J. Moore, Rex Passion, **Charles Shaw**, 2006, Eolianites and Karst Development in the Mayan Riviera, Mexico: The 12th Symposium on the Geology of the Bahamas and other Carbonate Regions, p. 88-98.

Shaw, C. E., 1976, Large-scale Recumbent Folding in the Valley and Ridge Province of Alabama: Geol. Soc. America Bull. V. 87, p. 407-418.

Shaw, C. E., 1970, Age and Stratigraphic Significance of the Talladega Slate: Evidence of Pre-Middle Ordovician Tectonism in Central Alabama: Southeastern Geology, v. 11, p. 253-267.

Shaw, C. E. and Peterson, R. G., Surficial Geology of the Hanover Quadrangle, Mass., U. S. Geological Survey Geol. Quadrangle Map

Peterson, R. G. and Shaw, C. E., Surficial Geology of the Brockton Quadrangle, Mass.: U. S. Geological Survey Geol. Quadrangle Map.

Dixon, R. R. and Shaw, C. E., 1965, Geologic Map of the Scotland Quadrangle, Conn.: U. S. Geological Survey Geol. Quadrangle Map 392.

Shaw, C. E., 1969, Surficial Geology of the Shrewsbury Quadrangle, Mass.: U. S. Geological Survey Geol. Quadrangle Map 794.

Books

Robinhawk, K. S. and Shaw, C. E., 2004, *eds*, The CEA 10th Anniversary Research Symposium: The Riviera Maya: Scientific Research and a Sustainable Ecology: Centro Ecológico Akumal Publication, May 2004.

Chapters

Shaw, C. E., 1974, Recumbent Folds in the Valley and Ridge Province of Alabama: pp. 87-89, *in* Thomas, W. A. and Drahovzal, J. A., eds., The Coosa Deformed Belt in the Alabama Appalachians: Guidebook for the Twelfth Ann. Field Trip of the Alabama Geol. Soc., 98p.

Shaw, C. E., 1973, Stratigraphy, Structure and Tectonics of Rocks Adjacent to the Piedmont Physiographic Front in Talladega County, Alabama, pp. 56-66: *in* Carrington, T. J., ed., Talladega Metamorphic Front: Guidebook to the Eleventh Annual Field Trip of the Alabama Geological Society.

Shaw, C. E., 2000, Dinosaurs, Meteors and Caves: A Short History of a Long Time, p. 99, *in* Taylor, Michael Ray; Caves: Exploring Hidden Realms: National Geographic Society, 216p

Research Monographs and Technical Reports

Shaw, C. E., 1976, Exploration Strategies in the Appalachian Thrust Belt: Tennessee, Georgia, Alabama: Commercial report for sale to the petroleum industry,

Shaw, C. E., 1997, Yal Ku Lagoon and North Akumal; Quality and Movement of Groundwater: Centro Ecológico Akumal, Environmental Report 1, 21p.

Shaw, C. E., 1994, Quality of Groundwater in Akumal: ms

Brown, Helen and Shaw, C. E., 2002, Constructed Wetlands Result in Reduced Contamination of Groundwater at Akumal: Summer 2002: *in* Environmental Report 2, Centro Ecológico Akumal, 24p.

Graduate Theses

Shaw, C. E., 1961, Stratigraphy and Structural Geology of the Sylacauga Area, Alabama: Sc.M Thesis, Brown University.

Shaw, C. E., 1967, Geology and Petrochemistry of the Milford Quadrangle, Massachusetts: Ph.D. Thesis, Brown University.

Funded External Grants

Grants Written and Received for Windham College, 1966-1973

(Amounts are approximate)

Laboratory equipment – five polarizing microscopes	Nat. Sci. Foundation	\$12,000
X-Ray diffraction machine	Nat. Sci. Foundation	\$8,000
Rock lab –saw, thin section equip	Nat. Sci. Foundation	\$8,500
Spectrograph and magnetic separator	Nat. Sci. Foundation	\$6,000
Undergraduate Research Participation 1968	Nat. Sci. Foundation	\$1,800
Undergraduate Research Participation 1969	Nat. Sci. Foundation	\$1,800
Undergraduate Research Participation 1970	Nat. Sci. Foundation	\$1,800
Undergraduate Research Participation 1971	Nat. Sci. Foundation	\$1,800

Total: \$41,700

Grants Written and Received for Centro Ecológico Akumal (1999-2004)

Creating a Corps of Technicians to Build Constructed Wetlands and Composting Toilets for Sewage Treatment in the Coastal Communities of Middle America 2004	NFWF	\$35,500
Sewage Waste Management Using Constructed Wetlands/Org. Capacity November 2002	The Summit Foundation	\$93,240
Sewage Treatment/Org Capacity November 2001	The Summit Foundation	\$150,000
Marine Turtle Protection 2001	National Fish and Wild- life Foundation (NFWF)	\$35,000
Marine Turtle Protection – Truck Wastewater Treatment Outreach 2002	NFWF	\$9,500
Wetland Retrofit 2003	NFWF	\$34,500
Weather Station 1999	NFWF	\$49,000
Hydrogeology, Aerial Photos 2000	PADI Fnd	\$8,000
Geologic Mapping Equip 2001	PADI Fnd	\$10,200
Waste Treatment in Akumal Pueblo 2001	PADI Fnd	\$11,000
1997 Ford Ranger Pick-up Truck	Sam & Charles Foundation	\$40,000
	Sam & Charles Foundation	\$12,000
Total: \$487,940		

Work or Professional Experiences

Professional Experience

U. S. Department of the Interior, Bureau of Land Management, California Coastal National Monument: GeoCorp program 2007, May 7 through July 29, 2007

Director, Centro Ecológico Akumal, January 1, 2001 – January 31, 2004

Coordinator Scientific Programs, Centro Ecológico Akumal: May 1993-

December 31, 2001.

President, Pan-Appalachian Exploration, Inc., Houston, Texas: 1977-1988.

Privately held corporation organized to evaluate petroleum potential in the Appalachian Thrust Belt of the southeastern United States.

Research Consultant, Houston, Texas, June 1975 – mid-1977

Senior Research Geologist, Weaver Oil & Gas Corporation, Houston, Texas, July 1973 – June 1975

Windham College, Putney, Vermont, 1966 – 1973, Assistant Professor of Geology, tenure 1972

Research Geologist, United States Geological Survey in Sylacauga, Alabama; Boston, Massachusetts and Middletown, Connecticut, June 1956 – December 1966

Graduate Studies, Brown University, 1958-1966.

Following three years as a full-time employee of the USGS (1956-1959), I continued to work with the U. S. Geological Survey on geohydrology mapping projects during the Summers, until I began my dissertation research in 1963. My association with the Survey continued until 1966.

Honors and Awards

Board of Directors, Centro Ukana I Akumal

Senior Fellow, The Geological Society of America

Tenure, Windham College, 1972

The Society of the Sigma Xi, The National Scientific Honorary Society

American Association of Petroleum Geologists – until 1985

American Geophysical Union – until 1985