

GENERAL

- I have a PhD in Biology from Boston University and I am a native English speaker.
- I am the author of a monthly column in the Jerusalem Post called 'Wild Israel'.
- In addition to my work as a biologist I have experience in teaching English, writing and publishing web sites and editing numerous technical papers and proposals.

EDUCATION Ph.D. 1987 Boston University Marine Program, Marine Biological Laboratory,
Woods Hole, MA, USA (Biology)

B.A. 1978 Cornell University, Ithaca, NY, USA (Animal Behavior)

**PROFESSIONAL
EXPERIENCE** 2004-2009 Supervisor of Teachers
Berlitz Hotzot Center

2000-2004 Research Associate
Israel Oceanographic & Limnological Research Institute
Tel Shikmona, P.O.Box 8030, Haifa 31080, Israel

1997-1999 Assistant Professor
Emporia State University
Emporia, Kansas, 66801-5087 USA

1990-1996 Research Associate
Center for Maritime Studies
University of Haifa, Haifa 31905, ISRAEL

1989-1990 Post-doctoral Fellow, Dr. Ehud Spanier
Center for Maritime Studies
University of Haifa, Haifa 31905, ISRAEL

1987-1989 Post-doctoral Fellow, Dr. Kenneth W. Able
Rutgers University Marine Field Station
P.O. Box 278, Tuckerton, NJ 08087

1982 Laboratory Assistant, Dr. Louis Leibovitz
Marine Biology Laboratory
Woods Hole, MA 02543

- 1980-1981 Research Assistant, Dr. Jelle Atema
Boston University Marine Program
Marine Biology Laboratory
Woods Hole, MA 02543
- Summer 1980 Computer Programmer, Dr. Glenn Hausfater
Cornell University, Ithaca, NY 14853

TEACHING EXPERIENCE

- Fall 1983 & 1985 **Introductory Biology**, Laboratory (for Majors). Boston University.
- Spring 1985 & 1986 **Introductory Biology**, (for Health Science Majors) Boston University.
- Fall 1986 & 1987 **Human Anatomy**, Laboratory (for Health Science Majors). Boston University.
- Fall 1991 **Marine Biology Research** (Independent Study). University of Haifa, Department for Overseas Students.
- Fall 1992 **Concepts in Evolution** (Independent Study). University of Haifa, Department for Overseas Students.
- Fall & Spring
1997, 98, 99 **Ecology**, Emporia State University
- Spring 1997, 98, 99 **Invertebrate Zoology**, Emporia State University
- Fall 1997 **Marine Biology**, Emporia State University
- Fall 1997, 98, 99 **Field Ecology**, Emporia State University
- Fall 1997, 98 **Graduate Seminar**, Emporia State University
- Fall 1999 **Research Design and Analysis**, Emporia State University

OTHER PROFESSIONAL ACTIVITIES

- 1989-Present Journal Reviewer: Marine Ecology Progress Series, U.S. Fishery Bulletin,
Journal of Crustacean Biology, Crustaceana
- 1987-Present Grant Reviewer: Sea Grant, Massachusetts; Sea Grant, Maine

SPECIAL SKILLS Computer Applications including: MS Word, MS Office, MS Excel, Adobe Photo Shop and many others, SCUBA Diving; Quantitative Sampling of Marine Benthic Substrates (Seining, Throw Trapping, Suction Sampling, Trawling)

AFFILIATIONS American Society of Zoologists, Crustacean Society, Zoological Society of Israel

GRANTS AND AWARDS

- 1983-1984 Barshaw, D.E. (PI). Environmental Conservation Fellowship, National Wildlife Federation and American Petroleum Institute, \$4000
"A Long Term Study of the Effects of Drilling Muds on the Burrowing Behavior of Juvenile American Lobsters (*Homarus americanus*)"
- 1986-1987 Barshaw, D.E. (PI). Environmental Conservation Fellowship, National Wildlife Federation. \$1000.
"Burrows as Refuge from Predation for Early Juvenile Lobsters"
- 1988-1989 Barshaw, D.E. (PI). Minigrant - New Jersey Marine Sciences Consortium. \$5000
"Tethering of Juvenile lobsters, *Homarus americanus*, as a Method of Assessing Survival in Different Habitats."
- 1988-1989 Barshaw, D.E. (PI) and K.W. Able. National Oceanographic & Atmosphere Agency, New Jersey Sea Grant. \$5000
"The Effect of Habitat Quality and Survival of Juvenile lobsters, *Homarus americanus* in Northern New Jersey Inshore Areas"
- 1988-1989 Able, K.W., K.A. Wilson and D.E. Barshaw (CO-PI). New Jersey Department of Environmental Protection. \$23,000
"Assessing the Effects of Development Pressure on Barnegat Bay: Impacts of Marinas on Juvenile Fishes and Crabs"
- 1990-1992 Spanier, E. and D.E. Barshaw (CO-PI). Avieser Foundation Fellowship. \$12,000
"Behavior and Ecology of the Mediterranean slipper lobster".
- 1991 Spanier, E. and D.E. Barshaw (CO-PI). United Nations Environment Program. \$3500
"Ecological assessment of the recent massive bloom of the Scyphomedusa, *Rhopilema nomadica* in the Southeastern Mediterranean"
- 1991-1996 D.E. Barshaw and Spanier, E. Israel Ministry of Science and Technology. \$77,700
"Predator-Prey interactions of the Mediterranean slipper lobster, *Scyllarides latus*"

- 1992 Barshaw, D.E. Israel Ministry of Science and Technology. \$3,600
Award for Outstanding Scientist.
- 1992 Barshaw, D.E. Travel Award from the Organizing Committee of the First
European Crustacean Conference, Paris France. \$600
- 1993 Spanier, E. and D.E. Barshaw (CO-PI). United Nations Environment Program.
\$4000
"The feeding, reproduction and intraspecific associations of the recent migrant to
the Southeastern Mediterranean, Scyphomedusa, *Rhopilema nomadica*."
- 1993 Barshaw, D.E. Travel Award from the Organizing Committee of the 4th
International Workshop on Lobster Biology and Management. Sanriku, Japan
\$500.
- 1995 Barshaw, D.E. (PI) and E. Spanier. Israel Ministry of Environmental Quality.
\$11,000
"Feeding biology of the nomadic jellyfish: How does feeding biology contribute
to the massive bloom of this macro-plankton in the Eastern Mediterranean?"
- Barshaw, D.E. Research and Creativity Grant, Emporia State University
\$ 3,100
"Are crayfish populations regulated by their predators?"

SEMINARS PRESENTED

"Effects of Drilling Muds on the Behavior, Growth and Survival of Early Juvenile Lobsters
Homarus americanus".

Marine Biological Laboratory General Meetings, Woods Hole, MA, USA 1984.
Environmental Quality and Ecosystem Stability, Jerusalem, Israel 1989

"The Early Juvenile Stages of the American Lobster".

Invited lecture at the Boston University Marine Program, Woods Hole, MA, USA, 1985.

"Early Juvenile Stages of the Lobster, *Homarus americanus*: Behavior, Growth and Survival in
Naturalistic Environments".

International Workshop on Lobster Recruitment, St. Andrews, Canada 1985.

"A Comparison of Predation on Postlarval Lobsters by Cunnners and Mud Crabs on Three Different
Substrates: Eelgrass, Mud and Rocks".

Northeast Regional Animal Behavior Society, Burlington, VT USA, 1986.
American Society of Zoologists, Nashville, TN, USA, 1986. Northeast Fish and Wildlife
Meetings, Boston, MA, USA, 1987

"Salt marsh peat reefs as protection for postlarval lobsters, *Homarus americanus*, from fish and
crab predators".

Northeast Fish and Wildlife Meetings, Virginia, USA 1988

"A Comparison of predation upon two species of portunid crabs, *Ovalipes ocellatus*, and blue crabs, *Callinectes sapidus*, in two habitats; sand and macroalgae covered mud".

American Society of Zoologists, San Francisco, CA, USA, 1988

"Tethering of Juvenile lobsters, *Homarus americanus*, as technique for assessing survival in different habitats".

Benthic Ecology Meetings, Portland, ME, USA, 1989

"Sheltering as a protective adaptation of the Mediterranean slipper lobsters, *Scyllarides latus*, against predation by the gray trigger fish, *Balistes carolinensis*"

Zoological Society of Israel, Tel Aviv, Israel and American Society of Zoologists, St. Antonio, TX. USA, 1990

"The Behavior and Ecology of Early Juvenile American Lobsters".

Invited lecture at the Israel Oceanographic Institute, Haifa, Israel, 1990

"The slipper lobster, *Scyllarides latus*, comparisons with the American lobster, "*Homarus americanus*"

Invited lecture at the Marine Biology Laboratory. Woods Hole, MA, USA, 1991.

"The defense strategies of the Mediterranean slipper lobster, *Scyllarides latus*".

Zoological Society of Israel, Tel Aviv, Israel. First European Crustacean Conference, Paris, France, 1992

"Social behavior, substrate preference and sheltering of the Mediterranean slipper lobster, *Scyllarides latus*".

Fourth International Workshop on Lobster Biology and Management, Japan, 1993

"The Undiscovered Lobster: A first look at social behavior of the Mediterranean Slipper lobster, *Scyllarides latus*".

American Society of Zoologists, Los Angeles, CA, USA, Zoological Society of Israel, Tel Aviv, Israel, 1994, and the Benthic Ecology Meetings, New Brunswick, NJ, USA, 1995.

"Defense strategies of slipper lobsters compared to spiny and clawed lobsters"

Invited lecture, Department of Evolution, University of Haifa, Haifa Israel. 1995

"Defense versus Offense: The responses against predation of three species of lobsters."

Invited lecture, Zoology Department, Hebrew University, Jerusalem, Israel. 1996

Invited lecture, Israel Oceanographic Institute, Haifa, Israel. 1996

"Is Offense the best Defense?"

Invited lecture, Biology Department, Ben Gurion University, Bersheva, Israel. 1996

5th International Workshop on Lobster Biology, New Zealand. February 1997

Southwestern Association of Naturalists, Fayetteville, Arkansas. April 1997

Invited lecture, Southwest Missouri State University, Springfield, Missouri. October 1997

Autotomy of a crab: Incomplete predation is a deliberate strategy of the snapping shrimp *Alpheus audouini* (edwardsii group).

Benthic Ecology Meetings, University of New Hampshire, Durham, NH USA. March
2001

PUBLICATIONS

- Atema, J., D.F. Leavitt, D.E. Barshaw, M.C. Cuomo. 1982. Effects of drilling muds on behavior of the lobster, *Homarus americanus* in water column and substrate exposures. *Can. J. Fish. Aquat. Sci.* 39: 675-690.
- Lavalli, K.L. and D.E. Barshaw. 1986. Burrows protect post-larval American lobsters, *Homarus americanus*, from predation by the non-burrowing cunner *Tautoglabrus adspersus*, but not from the borrowing mud crab, *Neopanope texani*. *Mar. Ecol. Prog. Ser.* 32: 13-16.
- Barshaw, D.E. 1987. The substrate-related behavior and predator-prey interactions of the early juvenile lobster, *Homarus americanus*. Ph.D. Thesis, Boston University, pp. 105.
- Barshaw, D.E. and K.L. Lavalli. 1988. A comparison of predation on post-larval American lobsters by cunners and mud crabs in three different substrates: eel grass, mud and rocks. *Mar. Ecol. Prog. Ser.* 48: 119-123.
- Barshaw, D.E. and D.R. Bryant-Rich. 1988. A long-term study on the behavior and survival of early juvenile American lobsters, *Homarus americanus* in three naturalistic substrates: eel grass, mud, and rocks. *Fish. Bull.* 6: 789-796.
- Barshaw D.E. 1989. Growth and survival of post-larval lobsters, *Homarus americanus*, on a diet of plankton. *Fish. Bull.* 87: 366-370.
- Barshaw, D.E. and D.R. Bryant-Rich. 1989. Effects of drilling mud on the behavior, growth and survival of early juvenile lobsters (*Homarus americanus*). Proceedings of the Fourth International Conference of the Israel Society for Ecology and Environmental Quality Sciences. Vol. IV/B ecosystem Stability.
- Lavalli, K.L. and D.E. Barshaw. 1989. The ability of post-larval American lobsters to remove plankton from the water column. *J. Mar. Behav. Physiol.* 15: 255-264.
- Barshaw, D.E. and K.W. Able. 1990. A comparison of predation upon two species of portunid crabs, lady crabs, *Ovalipes ocellatus*, and blue crabs, *Callinectes sapidus*, in two Habitats: sand and macro algae covered mud. *Mar. Ecol. Prog. Ser.* 66: 75-80.
- Barshaw, D.E. and K.W. Able. 1990. Tethering as a technique for assessing predation rates in different habitats: an evaluation using juvenile lobsters, *Homarus americanus*. *Fish Bull.* 88: 415-417
- Able K.W., K.A. Wilson and D.E. Barshaw. 1990. Assessing the effects of development pressure on Barnegat Bay: Impacts of marinas on juvenile fishes and crabs. 4-27625 SNJ DEP

- Spanier, E. and D.E. Barshaw. 1993. Can we increase tag retention in lobsters? *Israeli Journal of Zoology*. 39: 29-33.
- Barshaw, D.E., K.W. Able and K.L. Heck, Jr. 1994. Salt marsh peat reefs as protection for postlarval lobsters *Homarus americanus* from fish and crab predators: comparisons with other substrates. *Mar. Ecol. Prog. Ser.* 106: 203-206.
- Barshaw, D.E. and E. Spanier. 1994. The Undiscovered Lobster: A first look at the social behavior of the Mediterranean Slipper lobster, *Scyllarides latus*. *Crustaceana*, 67(2): 187-197
- Barshaw, D.E. and E. Spanier. 1994. Anti-predator behaviors of the Mediterranean slipper lobster, *Scyllarides latus*. *Bull. Mar. Sci.* 55 (2-3): 375-382
- Barshaw, D.E. and D.R. Rich. 1997. An analysis of postlarval lobster, *Homarus americanus*, substrate selection: A dynamic optimization model. *OIKOS*. 80: 554-564
- Barshaw, D.E., K.L. Lavalli and E. Spanier. 2003. Offense versus defense: responses of three different morphological types of lobsters to predation. *Mar. Ecol. Prog. Ser.* 256: 171-182
- Barshaw, D.E. (in prep). Autotomy of a crab: Incomplete predation is a deliberate strategy of the snapping shrimp *Alpheus audouini* (edwardsii group).
- Cowan D.F. and D.E. Barshaw (in prep). Field observations of shelter sharing among juvenile American lobsters, *Homarus americanus*