

Winston Stairs,
Research Diver
Member AAUS, ASLO, IPA
AAUS Membership Committee
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Training / Certification

Foreshore and Underwater Archaeology, (NAS1) – July 2007
Research Diver, (SDI) - August 2005
Marine EcoSystems Awareness, (SDI) - August 2005
Advanced Scuba Diver, (NAUI) – June 2002
Nitrox Diver, (TDI) – February 2002
Open Water Diver, (PADI) – July 1998
Boat Operator's Certificate, (PCOC) – January 2007
Marine Radiotelephone Operators Certificate, (MOC) – February 1981

Research Interests

Limnological, varied but primarily freshwater porifera, aquatic invasive species and paleolimnology. Interests include U/W archaeology and photo documentation of fast ice formation along northern portion of Lake Ontario shoreline since 2000.

Ongoing Studies/Current Activities

Assisting in population studies, habitat and behaviour dynamics of *Neogobius melanostomus* ('Round Goby') in Lake Ontario. Data being provided to Prof. Lynda Corkum, Assoc. Dean of Science – Research and Graduate Studies, Department of Biology, University of Windsor.

Involved in the early stage organization of a Hemimysis Monitoring Network (through NOAA/GLERL) and an active participant in a Rapid Response Research Plan for the search, collection and identification of newly introduced invasive species; *Hemimysis anomala* ('Bloody Red Shrimp') in the Great Lakes. Lead Researcher – David Reid, Ph.D., Director, NOAA National Center for Research on Aquatic Invasive Species (NCRAIS), NOAA/GLERL.

Interested in investigating competition between indigenous and non-indigenous filter feeders (i.e. porifera vs. *Dreissena polymorpha*).

Other Relevant Training / Experience

Employed full time in Networking & Telecom field (IBM and Bell Canada) for past 25+ years. Possess strong computing and IT skills.

Primary Care Paramedic (part time) from 1990-2004. Trained and certified to perform all BLS and certain ALS skills. Ontario Ambulance Service Identification Services (OASIS) ID #37269.

Affiliations/Memberships

Member of the American Academy of Underwater Sciences (#1779)

- Currently serving on Membership Committee

Member of the American Society of Limnology and Oceanography (#P316715)

Member of the International Paleolimnology Association

Member of the Divers Alert Network (#369353)

Publications, Course Work and Dive Reports

Stairs, Winston. 2007. *Future Science Divers*. SLATE: Newsletter of the American Academy of Underwater Sciences. Slate_4_07.pdf (http://data.memberclicks.com/site/aaus/Slate_4_07.pdf)

Stairs, Winston. 2007. *Absorbing World of Sponges*. Northeast Dive News. Volume 3 Issue 4 (April). pages 10-12.

Stairs, Winston. 2007. *Ice: Hard Facts About a Cold Friend*. Northeast Dive News Volume 3 Issue 1 (January). pages 11-12.

Stairs, Winston. 2005. *Benthic Core Sample Analysis Kirkfield Quarry*, SDI Research Dive Report, 5 pages.

Stairs, Winston. 2005. *pH Levels and Mixing Profile Kirkfield Quarry*, SDI Research Dive Report, 5 pages.

Stairs, Winston. 2004. *Marine and Freshwater Porifera*, SDI Research Course Work, 8 pages.

Stairs, Winston. 2004. *Meteoritic Presence in Benthic Lake Sedimentation*. SDI Research Course Work, 3 pages.

Personal Library of Texts Read

- Ballard, Robert D., 2000. *The Eternal Darkness*. Princeton University Press. 269 pages.
- Banister, Keith and Andrew Campbell. 1993. *The Encyclopaedia of Aquatic Life*. Andromeda Oxford Limited. 349 pages.
- Bass, George F. 1970. *Archaeology Under Water*. Penguin Books. 183 pages.
- Blot, Jean-Yves. 1996. *Underwater Archaeology*. Harry N. Abrams. 175 pages.
- Couture, Pauline. 2004. *ICE: Beauty, Danger, History*. McArthur & Company. 336 pages.
- Cramer, Deborah. 2001. *Great Waters: An Atlantic Passage*. W.W. Norton & Company. 442 pages.
- Charton, B. and J. Tietjen. 1988. *Facts on File Marine Science*. Facts on File, Inc., 325 pages.
- De Villiers, Marq. 2000. *Water: The Fate of Our Most Precious Resource*. Mariner Books. 252 pages.
- Earle, Sylvia A. 1995. *Sea Change: A Message of the Oceans*. G.P. Putnam's Sons. 342 pages.
- Englehart, Hermann. 1991. *Ice: Encyclopedia of Physics*, 2nd Ed. VCH Publishers. Pages 531-534.
- Evans, David J.A. and Benn, Douglas I. 2004. *A Practical Guide to the Study of Glacial Sediments*. Oxford University Press. 266 pages.
- Fogg, G.E. 1998 (Reprinted 2004). *The Biology of Polar Habitats*. Oxford University Press. 263 pages.
- Haddock, Steven H.D. and Heine, John N. 2006. *Scientific Blue-Water Diving*. California Sea Grant College Program, University of California. 48 pages.
- Huchinson, Stephen and Hawkins, Lawrence E. 2005. *Oceans A Visual Guide*. Firefly Books. 303 pages.
- Kaplan, Eugene H. 1982. *Coral Reefs*. Peterson Field Guides. 289 pages.
- Kunzig, Robert. 1999. *The Restless Sea: Exploring the World Beneath the Waves*. W.W. Norton & Company, 336 pages.
- Kunzig, Robert. 2000. *Mapping the Deep: The Extraordinary Story of Ocean Science*. W.W. Norton & Company, 325 pages.
- Masselink, Gerhard and Hughes, Michael G. 2003. *Introduction to Coastal Processes & Geomorphology*, Oxford University Press, 354 pages.
- Prager, Ellen J. 2000. *The Oceans*. McGraw – Hill. 314 pages.
- Robert, Andre. 2003. *River Processes An Introduction to Fluvial Dynamics*. Oxford University Press, 214 pages.

Stillinger, Frank H. 1991. *Water: Encyclopedia of Physics*, 2nd Ed. VCH Publishers. Pages 1353-1354.

Thomas, David N. 2004. *Frozen Oceans The Floating World of Pack Ice*. Firefly Books. 224 pages.

Wetzel, Robert G. and Likens, Gene E. 2000. *Limnological Analysis*. Springer-Verlag New York, Inc. 424 pages.

Wetzel, Robert G. 2001. *Limnology: Lake and River Ecosystems*. Elsevier Academic Press, San Diego, Calif. 841 pages.

Related Material

Fosd, Jan Helge and Ole S. Tendal. 2004. *Discovering Deep-Water Sponges*. Institute of Marine Research. Internet accessed.

Huber, Brian T., Bijma, Jelle, Spero, Howard J. 2004. *Blue-Water Scuba Collection of Planktonic Foraminifera*. Smithsonian Scientific Diving website, Methods and Techniques. pages 127-132.

Lauer, Thomas E., and A. Spacie. 2000. *The Effects of Sponge (Porifera) Biofouling on Zebra Mussel (Dreissena polymorpha) Fitness: Reduction of Glycogen, Tissue Loss and Mortality*. Journal of Freshwater Ecology. Volume 15, Number 1 – March 2000.

Lessios, Harilaos A. 2004. *Methods For Quantifying Abundance of Marine Organisms*. Smithsonian Scientific Diving website, Methods and Techniques. pages 149-157.

McClintock, Jack. 2004. *This is your Ancestor*. Discover – November 2004. Buena Vista Magazine. pages 64-69.

Patch, Kimberly. 2003. *Sponges grow sturdy optical fibre*. TRNmag.com. "http://www.trnmag.com/stories/2003/091003/Sponges_grow_sturdy_optical_fibre_091003". Accessed off internet 2004-12-10. Technology Research News.

Ricciardi, Anthony, Fred L. Snyder, David O Kelch, and Henry M. Reiswig. 1995. *Lethal and Sublethal effects of sponge overgrowth on introduced dreissenid mussels in the Great Lakes – St. Lawrence River System*, Can. J. Fish. Aquat. Sci. 52: 2695-2703 (1995) Printed in Canada.

Reed, John (HBOI). 2004. *Medicines From The Deep Sea: Exploration of the Gulf of Mexico*. AAUS The Slate. Issue 1 2004, pages 10-11.

Sundar, Vikran C., Andrew D. Yablon, John L. Grazul, Micha Ilan, and Joanna Aizenberg. *Fibre- optical features of a glass sponge*. Nature / Vol 424 / 21 August 2003. "<http://www.nature.com/nature>" Nature Publishing Group.

Unknown Author. 2005. *Catalina Conservancy Divers Key Species Monitoring Project Protocols, Band Transect Count and Quadrat Count Method*. Catalina Conservancy Divers website. pages 7-12.

Unknown Author. 2004. *Biomedical Drug Discovery, HBOI / Feature / New Anti-Fungal Agent Could Treat AIDS and Cancer Victims*. "<http://www.hboi.edu/news/features/biomed.html>". 2004-12-09

Unknown Author. 2004. *Sponges*. [mcgill.ca/English/species/sponges/index/htm](http://www.canadian.biodiversity/). "<http://www.canadian.biodiversity/>". 2004-03-04.

Unknown Author. 2003. *The Biology of Sponges*. BioMEDIA ASSOCIATES.2003. Internet accessed.

Woods, Heather Rock. 2006. *Slippery Substance*. *Symmetry*. A joint Fermilab/SLAC publication. Vol. 03, Issue 02, March 06.