CURRICULUM VITAE

NAME:	(Dr.) Dhugal John Lindsay	
BORN:	30 March 1971;	Rockhampton, Australia
CURRENT ADDRESS:		Japan Agency for Marine-Earth Science & Technology
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EDUCATION:

University of Tokyo, Tokyo (1993-1998)
Ph.D. in Aquatic Biology conferred July, 1998.
M. Sc. in Agriculture and Life Sciences conferred March, 1995.
University of Queensland, Brisbane (1989-1992)
B.Sc. in Molecular Biology conferred December, 1992. (gpa: 6.5 of 7.0)
B.A. in Japanese Studies conferred December, 1992. (gpa: 6.5 of 7.0)
North Rockhampton State High School, Rockhampton (1984-1988)
School Dux, 1988.

CURRENT POSITIONS:

October 2001 - present, Research Scientist, Japan Agency for Marine-Earth Science & Technology (JAMSTEC) August 2003 – present, Senior Lecturer (adjunct), Centre for Marine Studies, University of Queensland June 2006 – present, Associate Professor (adjunct), Yokohama Municipal University April 2007- present, Lecturer (adjunct), Nagasaki University April 2009 – present, Associate Professor (adjunct), Kitasato University April 2009 – present, Science and Technology Advisor, Yokohama Science Frontier High School

PREVIOUS POSITION:

May 1997 - October 2001, Associate Researcher, Japan Marine Science & Technology Center

OBJECTIVE:

A position in an organization where my combination of scientific expertise and considerable Japanese language and public relations skills is invaluable.

PUBLICATIONS:

<u>In English</u>

Lindsay, D.J., Yoshida, H., Uemura, K., Yamamoto, H., Ishibashi, S., Nishikawa, J., Reimer, J.D., Fitzpatrick, R., Fujikura, K. and T. Maruyama. The untethered remotely-operated vehicle PICASSO-1 and its deployment from chartered dive vessels for deep sea surveys off Okinawa, Japan, and Osprey Reef, Coral Sea, Australia. *Marine Technology Society Journal* 46(4): (in press)

Hunt, J.C. and Lindsay, D.J. 2012. *In situ* behavioral observations of the mesopelagic squid *Stigmatoteuthis dofleini* (Cephalopoda: Histioteuthidae). *American Malacological Bulletin* 30(2): 1-4.

Grossmann, M., Lindsay, D.J. and Fuentes, V. 2012. *Sphaeronectes pughi* sp. nov., a new species of sphaeronectid calycophoran siphonophore from the subantarctic zone. *Polar Science* 6: 196–199. doi:10.1016/j.polar.2011.11.001.

Miyake, H., Kitada, M., Lindsay, D.J., Itoh, T., Nemoto, S. and Miwa, T. 2012. How to keep deep-sea animals. In *Diversity of Ecosystems* edited by: Prof. Ali Mahamane. ISBN 978-953-51-0572-5, InTech, Available from: <u>http://www.intechopen.com/books/diversity-of-ecosystems/how-to-keep-deep-sea-animals</u>

Fuentes, V., Muñiz, M.A., Lindsay D.J., Isla E. and Gili, J-M. 2012. *Amphinema gordini* sp. nov., a new benthopelagic medusa (Cnidaria:Hydrozoa:Anthomedusae:Pandeidae) collected by sediment traps off the northern Chilean coast. *Marine Biodiversity* 42(2): 217-224.

Nishikawa, J., Fitzpatrick, R., Reimer, J.D., Beaman, R. J., Yamamoto, H., Lindsay, D.J. 2011. In situ observation of the Denise's pygmy seahorse *Hippocampus denise* associated with a gorgonian coral *Annella reticulata* at Osprey Reef, Australia. *Galaxea, Journal of Coral Reef Studies* 13: 25–26.

Kajihara, H., Katoh, T. and Lindsay, D.J. 2011. First record of the poorly known pelagic nemertean *Protopelagonemertes beebei* (Nemertea: Hoplonemertea: Polystilifera: Pelagica) from Japanese waters, with discussion of the species identity. *Marine Biodiversity Records* 4(13): 1–8.

Lindsay, D.J., Grossmann, M., and Minemizu, R. 2011. *Sphaeronectes pagesi* sp. nov., a new species of sphaeronectid calycophoran siphonophore from Japan, with the first record of *S. fragilis* Carré 1968 from the North Pacific Ocean and observations on related species. *Plankton and Benthos Research* 6(2): 101–107

Hunt, J.C., Lindsay, D.J. and Shahalemi, R.R. 2011. A Nursery Site of the Golden Skate (*Bathyraja smirnovi*) on the Shiribeshi Seamount, Sea of Japan. *Marine Biodiversity Records* 4(e70): 1–7, doi:10.1017/S1755267211000728.

Wiebe, P.H., Bucklin, A., Madin, L., Angel, M.V., Sutton, T., Pagès, F., Hopcroft, R.R. and Lindsay, D.J. 2010. Deep-sea sampling on CMarZ cruises in the Atlantic Ocean – an Introduction. *Deep-Sea Research II* 57: 2157–2166.

Lindsay, D.J. and Pagès, F. 2010. *Voragonema tatsunoko* (Trachymedusae: Rhopalonematidae), a new species of benthopelagic medusa, host to the hyperiid amphipod *Mimonectes spandli* (Physosomata: Mimonectidae). *Zootaxa* 2671: 31–39.

Kajihara, H. and Lindsay, D.J. 2010. *Dinonemertes shinkaii* sp. nov., a new species of bathypelagic nemertean (Nemertea: Hoplonemertea: Polystilifera: Pelagica). *Zootaxa* 2429: 43–51.

Dewar, H., Thys, T., Teo, S.L.H., Farwell, C., O'Sullivan, J., Tobayama, T., Soichi, M., Nakatsubo, T., Kondo, Y., Okada, Y., Lindsay, D.J., Hays, G.C., Walli, A., Weng, K., Streelman, J.T., and Karl, S.A. 2010. Satellite tracking the world's largest jelly predator, the ocean sunfish, *Mola mola*, in the Western Pacific. Journal of Experimental Marine Biology and Ecology, doi:10.1016/j.jembe.2010.06.023.

Fujikura, K., Lindsay, D.J., Kitazato, H., Nishida, S., and Shirayama, Y. 2010. Marine Biodiversity in Japanese Waters. PLoS ONE 5(8): e11836. doi:10.1371/journal.pone.0011836.

Okutani, T., and Lindsay, D.J. 2010. Cephalopods collected by the submersibles and ROVs of Japan Agency for Marine-Earth Science & Technology – Annotated catalogue up to 2008 – *JAMSTEC Report of Research and Development*, 10: 23–32.

Nishijima, M., Lindsay, D.J., Hata, J., Nakamura, A., Kasai, H., Ise, Y., Fisher, C., Fujiwara, Y., Kawato, M., and Maruyama, T. 2010. Association of Thioautotrophic Bacteria with Deep-sea Sponges. *Marine Biotechnology* 12: 253–260.

Bucklin, A., Nishida, S., Schnack-Schiel, S., Wiebe, P.H., Lindsay, D.J., Machida, R. and Copley, N.J. 2010. A Census of Zooplankton of the Global Ocean, Chapter 13, In: Life in the World's Oceans: Diversity, Distribution, and Abundance. Alasdair D. McIntyre (Ed.), Blackwell Publishing Ltd. (Oxford). Pp. 247-265

Ohtsuka, S., Koike, K., Lindsay, D.J., Nishikawa, J., Miyake, H., Kawahara, M., Mulyadi, Mujiono, N., Hiromi, J., and Komatsu, H. 2009. Symbionts of marine medusae and ctenophores (review). *Plankton and Benthos Research* 4(1): 1-13.

Lindsay, D.J., and Takeuchi, I. 2008. Associations in the benthopelagic zone: the amphipod crustacean *Caprella subtilis* (Amphipoda: Caprellidae) and the holothurian *Ellipinion kumai* (Elasipodida: Family: Elpidiidae). *Scientia Marina* 72(3): 519-526.

Lindsay, D.J., Pagès, F., Corbera, J., Miyake, H., Hunt, J.C., Ichikawa, T., Segawa, K., and Yoshida, H. 2008. The anthomedusan fauna of the Japan Trench: preliminary results from in situ surveys with manned and unmanned vehicles. *Journal of the Marine Biological Association of the United Kingdom* 88(8): 1519– 1539.

Collins, A.G., Bentlage, B., Lindner, A., Lindsay, D.J., Haddock, S.H.D., Jarms, G., Norenburg, J.L., Jankowski, T., and Cartwright, P. 2008. Phylogenetics of Trachylina (Cnidaria, Hydrozoa) with new insights on the evolution of some problematical taxa. *Journal of the Marine Biological Association of the United Kingdom* 88(8): 1673–1685.

Yokobori, S., Lindsay, D.J., Yoshida, M., Tsuchiya, K., Yamagishi, A., Maruyama, T., and Oshima, T. 2007. Mitochondrial genome structure and evolution in the living fossil vampire squid, *Vampyroteuthis infernalis*, and extant cephalopods. *Molecular Phylogenetics and Evolution* 44: 898-910.

Yoshida, H., Lindsay, D.J., Yamamoto, H., Tsukioka, S., Shimura, T., and Ishibashi, S. 2007. Small hybrid vehicles for jellyfish surveys in midwater. *Proceedings of the* 17th *International Offshore and Polar Engineering Conference* p 127.

Yoshida, H., Aoki, T., Osawa, H., Tsukioka, S., Ishibashi, S., Watanabe, Y., Tahara, J., Miyazaki, T., Hyakudome, T., Sawa, T., Itoh, K., Ishikawa, A., and Lindsay, D. 2007. Newly-developed devices for two types of underwater vehicles. *Oceans 2007 Conference Proceedings* 1–6.

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Lindsay, D.J., Furushima, Y., Miyake, H., Kitamura, M. and Hunt, J.C. 2004. The scyphomedusan fauna of the Japan Trench: preliminary results from a remotely-operated vehicle. *Hydrobiologia* 530/531: 537-547.

Armstrong, J., Becker, K., Eagar, T., Gilman, B., Johnson, M., Kastner, M., Lindsay, D., Mevel, C., Negahdaripour, S., Pomponi, S., Robison, B., Solow, A., and Zacharias G. 2004. Future Needs in Deep Submergence Science: Occupied and Unoccupied Vehicles in Basic Ocean Research. Committee on Future Needs in Deep Submergence Science, Ocean Studies Board, Division on Earth and Life Studies, National Research Council of the National Academies. The National Academies Press, Washington, D.C. pp. 1-135.

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Lindsay, D.J. 2003. Carbon and nitrogen contents of mesopelagic organisms: Results from Sagami Bay, Japan. *JAMSTEC J. Deep Sea Res.* 22: 1-13.

Matsumoto, G, Raskoff, K., and D.J. Lindsay, 2003. *Tiburonia granrojo*, a new mesopelagic scyphomedusa from the Pacific Ocean representing the type of a new subfamily (Class Scyphozoa, Order Semaeostomae, Family Ulmaridae, Subfamily Tiburoniiae subfam nov.) *Marine Biology* 143: 73-77

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Miyake, H., Lindsay, D.J., Hunt, J.C. and T. Hamatsu, 2002. Scyphomedusa *Aurelia limbata* (Brandt, 1838) found in deep waters off Kushiro, Hokkaido, Northern Japan. *Plank. Biol. & Ecol.* 49(1): 44-46

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Hunt, J.C., Lindsay, D.J., Hashimoto, J., Fujikura, K., Fujiwara, Y., Miyake, H., and S. Tsuchida, 2000. Observations of the pelagic fauna over the Pac Manus Site, in the Manus Basin, Papua New Guinea: preliminary results. *JAMSTEC J. Deep Sea Res.* 16: 15-21.

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Lindsay D.J., Minagawa, M., Mitani, I., and K. Kawaguchi, 1998. Trophic shift in the Japanese Anchovy (*Engraulis japonicus*) in its early life history stages as detected by stable isotope ratios in Sagami Bay, Central Japan. *Fisheries Science*, 64(3): 403-410.

Lindsay D.J., 1998. Applications of the stable isotope technique in marine food web studies. Ph.D. thesis, University of Tokyo, Tokyo. pp. 240.

Hunt, J.C., Hashimoto, J., Fujiwara, Y., Lindsay, D.J., Fujikura, K., Tsuchida, S., and T. Yamamoto, 1997. The development, implementation, and establishment of a mesopelagic and benthopelagic biological survey program using submersibles in the seas around Japan. *JAMSTEC J. Deep Sea Res.*, 13: 675-685.

In Japanese

加々美康彦・松田裕之・白山義久・桜井泰憲・古谷研・中原裕幸編 (2012)『海洋保全生態学』. <u>講談社</u> (実例 3: 72-74. 執筆)

『クラゲ図鑑』

Yamamoto, H., D. J. Lindsay and M. Sunamura. 2010. Impacts of hydrothermal plume to oceanic environment from subseafloor zone. Aquabiology, 32: 143-149.

Mori, M., Suzuki, Y., Yamaki, A., and Lindsay, D.J. 2010. A checklist of hyperiid amphipods (Amphipoda: Hyperiidea) from Japanese waters, including new records from 1996-2007 for Sagami Bay and outlying areas. *Bulletin of the Plankton Society of Japan*, 57(1): 41–54. (English abstract)

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Nishida, S., Lindsay, D.J., and Machida, R.J. 2009. Census of Marine Zooplankton (CMarZ): Accomplishments and prospects. *Bulletin of the Plankton Society of Japan*, 56(2): 139–144.

Lindsay, D.J., and Miyake, H. 2009. A checklist of midwater cnidarians and ctenophores from Japanese waters -species sampled during submersible surveys from 1993-2008 with notes on their taxonomy. *Kaiyo Monthly*, 41(8): 417–438.

Nishikawa, J., Thu, N.T., Yusoff, F.Md., Lindsay, D.J., Mulyadi, Mujiono, N., Ohtsuka, S., and Nishida, S. 2009. Jellyfish fisheries in Southeast Asia, with special reference to those in Vietnam, Indonesia, and Malaysia. *Kaiyo Monthly*, 41(7): 401–411.

Maruyama, T., Kato, C., Yamamoto, H., Fujikura, K., Sato, T., Fujiwara, Y., Furushima, Y., Tsuchida, S., Omata, T., Lindsay, D.J., Yoshida, T., Kitamura, M., Takishita, K., Kawato, M., Watanabe, H., Pradillon, F., Okutani, T., Oishi, K., Miyake, H., Reimer, J.D., Sasaki, T., and Nemoto, S. 2009. Research activities of the Research Program for Marine Biology and Ecology from 2004 to 2008. *JAMSTEC Report on Research and Development*, 9(1): 13–74.

Itoh, T., Miyake, M., and Lindsay, D.J., 2009. Relationship between body damage and long-term survival in deep-sea shrimp, *Bentheogennema borealis*, collected with the IONESS plankton net. Journal of Fisheries Technology, 1(2): 45–51.

Miyake, H., and Lindsay, D.J., 2009. The deep-sea is a world of bioluminescence. *Kaiyo Monthly*, Special Edition 51: 95-100.

Mori, M., and Lindsay, D.J. 2008. Body pigmentation changes in the planktonic crustacean *Vibilia stebbingi* (Amphipoda: Hyperiidea) under different light regimes, with notes on implications for the development of automated plankton identification systems. *JAMSTEC Report on Research and Development*, 8: 37–45.

Fujioka, K., and Lindsay, D.J. (Oct, 2008) Deep trenches: the ultimate abysses *in* Shinkai. Shinyusha, Japan. pp 240–241.

Kitamura, M., Lindsay, D.J., Miyake, H., and Horita, T. 2008. Ctenophora in: Deep-sea life –Biological observations using research submersibles. (eds Fujikura K, Okutani T, Maruyama T). Tokai University Press, Kanagawa, p. 244.

Kitamura, M., Miyake, H., and Lindsay, D.J. 2008. Cnidaria in: Deep-sea life –Biological observations using research submersibles. (eds Fujikura K, Okutani T, Maruyama T). Tokai University Press, Kanagawa, p. 295-320.

Kitamura, M., Lindsay, D.J., Miyake, H., and Horita, T. 2008. Ctenophora in: Deep-sea life –Biological observations using research submersibles. (eds Fujikura K, Okutani T, Maruyama T). Tokai University Press, Kanagawa, p. 321-328.

Komai, T., Fujikura, K., and Lindsay, D.J. 2008. Arthropoda in: Deep-sea life –Biological observations using research submersibles. (eds Fujikura K, Okutani T, Maruyama T). Tokai University Press, Kanagawa, p. 345-349.

Yoshida, H., & D.J. Lindsay. 2007. Development of the PICASSO (Plankton Investigatory Collaborating Autonomous Survey System Operon) System at the Japan Agency for Marine-Earth Science and Technology. *Japan Deep Sea Technology Society Report* 54: 5-10.

Okutani, T., Lindsay, D.J., & T. Kubodera. 2007. Cephalopods observed from submersibles and ROVs – IV. The first *in situ* observation of *Ctenopteryx siculus*. Chiribotan 38(1-2): 32-36.

Lindsay, D.J. 2006. A checklist of midwater cnidarians and ctenophores from Sagami Bay -species sampled during submersible surveys from 1993-2004. *Bulletin of the Plankton Society of Japan* 53(2): 104-110.

Lindsay, D.J. 2005. Planktonic communities below 2000m depth. *Bulletin of the Plankton Society of Japan* 52(2): 113-118.

Okutani, T., & D.J. Lindsay. 2005. Cephalopods observed from submersibles and ROVs – I. Strange posture of a strange squid. Chiribotan 36(1): 1-5.

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Miyake, H., & D.J. Lindsay. 2003. Sampling and rearing of deep sea hydroids. *JAMSTEC J. Deep Sea Res.* 22: 71-76.

Lindsay, D.J., Hunt, J.C., Miyake, H., & J. Hashimoto. 2001. Submersible-based studies on the biodiversity of midwater organisms. *Kaiyo Monthly*, Special Edition 27: 47-52.

Miyake, H., Lindsay, D.J., & J.C. Hunt. 2001. Submersible-based research on gelatinous plankton. *Kaiyo Monthly*, Special Edition 27: 216-223.

Lindsay D.J. 2001. The mudskipper. Seizu Press, Tokyo. (A collection of 290 original haiku poems)

Fujikura, K., Hunt, J., Kojima, S., Fujiwara, Y., Tamaki, K., Maki, Y., Lindsay, D., Nogi, Y., Koyama, S., Sasaki, T., Suga, H., Kodera, T. and Okutani, T. 2000. The aggregations of thyasirid bivalve discovered by ROV "KAIKO" from the hadal zone in the Japan Trench. *JAMSTEC J. Deep Sea Res.* 16: 41-47.

Lindsay, D.J., J.C. Hunt, J. Hashimoto, K. Fujikura, Y. Fujiwara, S. Tsuchida & K. Itoh, 1999. The benthopelagic community of Sagami Bay. *JAMSTEC J. Deep Sea Res.* 14: 493-499.

Lindsay D.J., Minagawa, M., Mitani, I., and K. Kawaguchi, 1997. Life history of the Japanese anchovy in Sagami Bay: Insights from stable isotope analyses. *Kaiyo Monthly*, 29(7): 418-424.

Solicited articles on deep-sea biology, global warming and haiku poetry in many Japanese newspapers & magazines.

In French

Fujioka, K., and Lindsay, D.J. (Oct, 2006) Les fosses océaniques : ultimes abysses *in* Abysses. Fayard, Paris. pp 256.

<u>In Spanish</u>

Lindsay D.J., 2007. De Cerca : Vida entre aguas. *Investigacion y Ciencia, Edición española de Scientific American* 372: 38-39.

Lindsay D.J., 2006. De Cerca : Planeta de medusas. *Investigacion y Ciencia, Edición española de Scientific American* 354: 40-41.

PROFESSIONAL EXPERIENCE:

Census of Marine Zooplankton (Census of Marine Life) Steering Committee Member.

Census of Marine Life National Regional Implementation Committee Member (Japan).

Editorial Board of the Scientific Journal "Scientia Marina". (November 2007-)

Editorial Board of the Scientific Journal "Plankton and Benthos Research". A co-publication of the Plankton Society and Benthos Society of Japan. (2006-)

Editorial Board of the Marine Technology Society Journal (U.S.) (2005-)

Committee Membership on National Academies of Science (U.S.), Ocean Studies Board, Committee on Future Needs in Deep Submergence Science. (April 2003-January 2004)

Editorial Board of the Scientific Journal "Plankton biology and ecology". A publication of the Plankton Society of Japan. (1996-2005)

Reviewer for scientific journals including Deep-Sea Research II, Zootaxa, Journal of Plankton Research, ICES Journal of Marine Science, Coral Reefs, Plankton and Benthos Research, Marine and Freshwater Research, Progress in Oceanography, Journal of Oceanography, Journal of Marine Systems, Plankton Biology and Ecology, Marine Technology Society Journal, and others. Reviewer for NSF proposals to Biological Oceanography Program. Reviewer for Census of Marine Life field proposal (Alfred P. Sloan Foundation).

Consultant to Japan International Cooperation Agency (JICA) on coral atoll structure and environmental impact of a construction project for the Republic of Kiribati.

Official Interpreter and Liaison at the Fourth International Workshop on Lobster Biology and Management (Sanriku, Japan, 1993)

Freelance Interpreting: Clients including the Australian and Japanese Governments.

MEMBERSHIP OF SOCIETIES:

Marine Technology Society Japanese Society of Bio-Logging Science Plankton Society of Japan Oceanographic Society of Japan Modern Haiku Society of Japan Shisuikai (University of Tokyo Alumni) Natsushimakai (Japan Agency for Marine-Earth Science and Technology Alumni) Australia-Japan Society of Queensland, Inc. Australia-Japan Alumni Association

FIELD EXPERIENCE:

Extensive experience, as both Chief Scientist and as a member of a team, in both the design and implementation of biological sampling programs using traditional and cutting-edge techniques. These include:

A year-long monthly plankton and nekton sampling program at a coastal station in Sagami Bay, Japan, that involved both liaising with local fishermen and shipboard sampling.

Five cruises aboard the R/V Tanseimaru that involved midwater trawls, water collection and sediment trap deployment and recovery.

Two cruises aboard the R/V Kairei that involved using a towed camera array equipped with a discrete layer plankton net system and Niskin water samplers, and towing of an IONESS net system during both day and night.

Three cruises aboard the R/V Kaiyo that involved using a towed camera array equipped with a discrete layer plankton net system and Niskin water samplers, and towing of an IONESS net system during both day and night.

Eight cruises aboard the R/V Natsushima using the remotely operated vehicle (ROV) Dolphin 3K for midwater and benthopelagic biological studies.

Four cruises aboard the R/V Natsushima using the remotely operated vehicle (ROV) HyperDolphin for midwater and benthopelagic biological studies.

Eleven cruises aboard the R/V Natsushima using the crewed research submersible Shinkai 2000 for midwater and benthopelagic biological studies.

Four cruises aboard the R/V Kairei using the ROV Kaiko for midwater and benthopelagic biological studies, including in the Challenger Deep.

Four cruises aboard the R/V Kaiyo using the ROV HyperDolphin for midwater and biological studies. Two of these I organized from the ground up.

Two cruises aboard the R/V Kaiyo using a towed camera array for vertical migration studies. This involved organizing the cruises from the ground up.

One cruise aboard the R/V Yokosuka using the Shinkai 6500 crewed submersible to survey the geology and biology of Atlantis Bank and the midwater fauna of the S-W Indian Ocean.

One cruise aboard the R/V Yokosuka using the Shinkai 6500 crewed submersible to survey the midwater fauna of the Japan Trench from the surface to 6500m.

One cruise aboard the R/V Ronald H. Brown (CmarZ April 2006) that involved using several discrete layer plankton net systems (MOCNESS-10, MOCNESS-1. MOCNESS-0.25) and other net systems during both day and night.

TEACHING EXPERIENCE:

Supervision of five Masters Course and one Doctoral Postgraduate students and seven 4th-year students for research projects on Deep Sea Biology. Extensive classroom experience as an English language teacher (Tesco International, 1991-1996) and as a tutor of Senior High School Maths and Physics, Japanese, and haiku poetry. Also assisted teaching the courses Introduction to Biochemistry (University of Queensland,

1992) Marine Planktonic Ecosystems (University of Tokyo, 1994-1995) and International Relations (Toyo Women's College, 1993-1995).

AWARDS HELD:

Compass International Award for outstanding contributions to the advancement of the science and engineering of oceanography and marine technology, Marine Technology Society. 2009.

Young Alumnus of the Year 2003. University of Queensland.

7th Annual Nakaniida Grand Haiku Prize for the best debut work by a haiku poet working in the Japanese language for "The mudskipper" (Mutsugoro).

"Best manuscript of 1999" concerning research on plankton in Japanese waters. (Plankton Society of Japan)

Japanese Proficiency Exam, Level 1. (International Education Society of Japan)

Driver's Licence (Japanese and Australian, Open, Class C)

Licence to Drive a Speed Boat (Marine Board of Queensland)

Advanced SCUBA licence (PADI)

Recipient of Australia Japan Society, Yokoyama and Tokyu Scholarships.

Highest mark in Queensland for the Australian Schools Science Competition (1986)

International Science School delegate (one of five from Queensland) (1986)

ADDITIONAL INFORMATION:

Captain of Australian Team for the Sapporo Snow Festival Snow Statue Carving Competition 1995 (involved both fund-raising and logistic planning).

Experience in programming in BASIC, SQL and HTML. Extensive experience with Excel, Powerpoint, Word, Photoshop and Canvas.

Proficiency in non-linear video editing (AVID Xpress).

Co-editor for Fuyoh/Rose Mallow haiku journal (1995-present). Involves desktop publishing, translating, and an in-depth knowledge of the Japanese culture and language.

REFERENCES:

(available upon request).

Executive Summary

Dhugal John Lindsay received his Ph.D. in aquatic biology from the University of Tokyo in 1998. He is a Research Scientist with the Japan Agency for Marine-Earth Science & Technology (JAMSTEC) and holds adjunct professorships at Yokohama Municipal University and Kitasato University, also being a Science and Technology advisor to the Yokohama Science Frontier Senior High School. Dr. Lindsay's research focuses on mid-water ecology, particularly concentrating on gelatinous organisms that are too fragile to be sampled by conventional methods and their associated fauna. Dr. Lindsay has extensive experience with the Japanese research vessel and submersible fleet, both as Chief Scientist and as a member of multidisciplinary teams. His sailing experience includes over 46 cruises aboard various Japanese research vessels, cruises on Australian, U.S. and Spanish vessels, as well as 21 dives in crewed submersibles. He has used conventional sampling techniques such as nets and sediment traps (e.g. IKMT, MTD, ORI, Norpac, IONESS, MOCNESS, R/V Tanseimaru, University of Tokyo; R/V Ronald H. Brown, NOAA; R/V Garcia del Cid, CSIC, Spain; R/V Cape Ferguson, AIMS, Australia) and towed camera arrays (e.g. 4000m and 6000m Deep-Tow Cameras, R/V Kaiyo; Visual Plankton Recorder) and has also used both manned submersibles (e.g. Shinkai 2000, R/V Natsushima; Shinkai 6500, R/V Yokosuka) and remotely-operated vehicles (e.g. ROV Dolphin 3K, R/V Natsushima; ROV Ventana, R/V Point Lobos; ROV HyperDolphin, R/V Kaiyo; ROV Kaiko, R/V Kairei; uROV PICASSO; mROV) to investigate fauna from depths as shallow as the euphotic layer to as deep as the Challenger Deep, Mariana Trench. He is Project Leader of JAMSTEC's PICASSO Project. Dr. Lindsay is a member of the Japanese Society of Biologging Science, Plankton Society of Japan, and the Oceanographic Society of Japan, is on the editorial board of the journals "Scientia Marina", "Plankton and Benthos Research" and "The Marine Technology Society Journal", and served on the National Academies of Science (U.S.), Ocean Studies Board, Committee on Future Needs in Deep Submergence Science. He served on the Steering Committee of the Census of Marine Zooplankton (Census of Marine Life: CoML), and also on the Japanese National Regional Implementation Committee of CoML. He is recipient to the "Compass International Award for outstanding contributions to the advancement of the science and engineering of oceanography and marine technology", Marine Technology Society (2009) and the "Young Alumnus of the Year 2003" awarded by the University of Queensland.

Dr. Lindsay is also a renowned and prolific haiku poet, working in the Japanese language and is the recipient of the "7th Annual Nakaniida Grand Haiku Prize" for the best debut work by a haiku poet working in the Japanese language for "The mudskipper" (Mutsugoro).

Research Interests

Description of gelatinous midwater fauna (taxonomy, community structure, biodiversity patterns) & their environment, to determine how so many top-level carnivores can co-exist in the relatively homogeneous midwater environment. Diversity maintenance mechanisms are thought to differ from those in benthic or terrestrial environments & understanding them will undoubtedly force us to rethink paradigms based on terrestrial and benthic systems. However, efforts using traditional techniques to describe species & map distributions in space & time (spatio-temporal niche apportionment) can never yield complete knowledge of plankton biodiversity. Submersibles & other modern technologies are needed to understand plankton biodiversity & community structure.