**Vitae for Dr. John A Downing**

Director, Minnesota Sea Grant College Program; Professor, University of Minnesota Duluth

**Education**

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| Hamline University, St. Paul, MN | Biology | B.S. with Honors 1973 |
| North Dakota State Univ., Fargo, ND | Zoology | M.S. 1975 |
| McGill University, Montréal, Can. | Biology | Ph.D. with Honors 1979 |
| McGill Univ, Montréal, Can., Biology | Postdoc | 1980-1981 |
| Univ de Montréal, Montréal, Can., Biol | Postdoc | 1981-1982 |

**Professional Preparation**

2015+, U of MN-Duluth, Director, Sea Grant College Program, Professor, Large Lakes

Observatory and Dept. of Biology

2010-2015, Iowa State University, Chair, Environmental Science Graduate Program 2007+, Adjunct Professor, Science, Itasca Community College

1995 to 2016, Iowa State University, Professor, Ecology, Evolution, and Organismal Biology; Agricultural & Biosystems Engineering; Natural Res Ecol. & Management; Animal Ecology

1994-1996, University of Minnesota, Research Associate, Ecology, Evolution & Behavior

1981-1995, Université de Montréal, Director, Biological Science: Laurentian Biological Station, (1990-1995), Professor (1993-1995), Assoc. Prof. (1988-1993), Assist Prof. (1987-1988),

Research Fellow (1982-1987), Postdoctoral Fellow (1981-1982)

1979-1995, McGill University, Biology, Adjunct Prof. (1981+), Postdoc Fellow (1980-1981)

**Recent Major Publications**

Keeler, B.L., S.A. Wood, S. Polasky, C. Kling, C.T. Filstrup, and **J.A. Downing**. 2015. Recreational demand for clean water: evidence from geotagged photographs by visitors to lakes. Frontiers in Ecology and the Environment 10.1890/140124

**Downing, J.A**. 2014. Productivity of freshwater ecosystems and climate change. Chapter 127 In: Freedman, W. (ed.) *Handbook of Global Environmental Change*. Springer.

Egan, K.J., J.A. Herriges, C.L. Kling, and **J.A. Downing**. 2011. The value of lake water quality improvements: qualitative information from quantitative studies. In: Wheeler, W. and C. Griffiths, eds., *Using Qualitative Methods to Understand Economic Valuation for Water Quality*. Edgar Elgar.

**Downing, J.A.** 2009. Global limnology: up-scaling aquatic services and processes to the planet Earth. *Verhand der Int Vereinigung für Theoretische und Angewandte Limnologie* 30: 1149-1166.

**Downing, J.A**., and 10 others. 2006. The global abundance and size distribution of lakes, ponds, and impoundments. *Limnology and Oceanography* 51(5): 2388-2397

**Appointments**

President of the Association for the Sciences of Limnology and Oceanography - 2012-2014

Chair of the Council of Scientific Society Presidents - 2015

**PI and Organizational Qualifications**

Dr. Downing is the Director of the Minnesota Sea Grant (MNSG) Program at the University of Minnesota Duluth. In this capacity he has an excellent staff at his disposal to undertake this project, both scientifically and administratively. He has an extensive background in limnology and has worked on lakes and ponds throughout the world. While at Iowa State University he worked closely with the Iowa Department of Natural Resources and Iowa Legislature to address critical water quality issues in lakes and ponds throughout Iowa. His Master’s Degree focused on fisheries and water quality in small lakes and ponds in North Dakota. In addition to Dr. Downing’s fisheries and water quality background, MNSG Fisheries/Aquaculture Specialist Don Schreiner has over 34 years of experience working for the Minnesota Department of Natural Resources and Minnesota anglers on a variety of fisheries management issues including Walleye production, invasive species, bait production and aquaculture. MNSG program staff routinely administer grants, track funding, and develop outside contracts with relevant experts for various projects. Outreach, or the transfer of aquatic science information between researchers, targeted user groups, and the public is a key mission of the MNSG program which will be instrumental in applying the results of the proposed project. Dr. Downing, as PI and Director of MNSG, will coordinate the activities of a well-qualified science and administrative staff to complete this project.