

**A.G. HUNTSMAN AWARDS FOR EXCELLENCE
IN THE MARINE SCIENCES**

2012 NOMINATION

CATEGORY: Marine Geoscience

I hereby nominate (Please include full mailing address and contact information):

Nomination Statement (Please include a brief explanation of influence and leadership provided in the designated category. Suggest 3–5 paragraphs.)

Citation of Career Highlights (Please provide a 1–3 page summary of scientific achievements and career highlights relevant to the nomination)

Curriculum Vitae (Please attach an up-to-date *Curriculum Vitae* for the nominee. This should include a list of publications (journals, symposia, book chapters/reviews, other documents), and lists of relevant professional activities such as positions held, major projects, influential committees, and supervision/mentoring of other scientists (students, PDFs, RAs).

..... **Deadline for Receipt of Nominations: April 13, 2012**

Nominator:

Telephone/ Fax Numbers:

Email:

Mailing Address:

Signature:

Please return to:

Dr. Kristin Orians

Chair, Huntsman Selection Committee

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A.G. HUNTSMAN AWARDS FOR EXCELLENCE IN THE MARINE SCIENCES

The A.G. Huntsman Award was created in 1980 to recognize excellence in marine sciences. It is administered by the A.G. Huntsman Foundation, based at the Bedford Institute of Oceanography, and funded by contributions from the Canadian Association of Petroleum Producers, Fisheries and Oceans Canada, Natural Resources Canada, and the Province of Nova Scotia. The Award honours those men and women, of any nationality, who have had and continue to have a significant influence on the course of marine scientific thought. The A.G. Huntsman Award reflects the multi-faceted nature of research in the world's oceans. It has been presented annually in one of three categories – Marine Geoscience, Physical/Chemical Oceanography, and Biological Oceanography and Fisheries Science – except in its inaugural year when recipients were honoured in all three. To mark its 25th Anniversary in 2005, an Award was presented in each of the above categories, as well as in the category of Interdisciplinary Marine Science. The Award is named in honour of Archibald Gowanlock Huntsman (1883–1973), a pioneer Canadian oceanographer and fishery biologist. The A.G. Huntsman Award consists of a specially designed and engraved sterling silver medal that is presented annually by the Royal Society of Canada at a special ceremony at the Bedford Institute of Oceanography in Dartmouth, Nova Scotia, Canada. Each recipient also delivers a distinguished lecture.

PREVIOUS AWARD RECIPIENTS

Dr. Andrew J. Weaver (Canada) – 2011 – Physical/Chemical Oceanography

Dr. Weaver is an international leader in ocean and climate modelling and analysis and, in particular, is a foremost expert on the role of the ocean in climate variability and change. Dr. Weaver is an outstanding spokesperson on issues concerning climate science and he has dedicated enormous energy conveying sound science to the public at large.

Dr. Curtis A. Suttle (Canada) – 2010 – Biological Oceanography and Fisheries Science

Dr. Suttle is one of the World's leading marine virologists. His research has demonstrated that viruses are not only the most abundant and genetically diverse biological entities in the World's oceans, but they are major agents of mortality. The results have had a significant impact on our understanding of nutrient and energy flow in the oceans, and have been a catalyst in the re-invigoration of phage biology and environmental virology.

Dr. James P.M. Syvitski (USA / Canada) – 2009 – Marine Geosciences

Dr. Syvitski was honoured for his both broad and focused research into land–ocean interactions in various coastal zone hydrodynamic settings, sediment deposition processes in iceberg–dominated

glaciomarine environments and fjords, and numerical model developments aimed at elucidating new understandings on climate-driven riverine sediment fluxes.

Dr. Roger François (Canada) – 2008 – Physical/Chemical Oceanography

Dr. François was honoured for his groundbreaking research in marine geochemistry, centered at the intersection of physical, chemical and biological processes, thereby influencing our understanding of climate-related changes in ocean circulation and ocean chemistry.

Dr. Thomas Kiørboe (Denmark) – 2007 – Biological Oceanography and Fisheries Science

Dr. Kiørboe was honoured for his original and provocative thinking that has led to pioneering contributions in many areas of marine ecology, particularly in linking individual and small scale processes to observed patterns in populations and communities.

Dr. Sallie (Penny) W. Chisholm (U.S.A.) – 2005 – Biological/Fisheries Oceanography

Dr. Chisholm was honoured for her insightful contributions to the fields of biological oceanography and microbial ecology which have fundamentally changed our perspective of the nature of life in the sea.

Dr. Edouard Bard (France) – 2005 – Marine Geosciences

Dr. Bard was honoured for his significant contributions to isotopic dating and proxy thermometry techniques and their application to studies of the Earth's paleoclimate and, in particular, its ice-age climate and sea level dynamics.

Dr. Trevor J. McDougall (Australia) – 2005 – Physical/Chemical Oceanography

Dr. McDougall was honoured for his leading role in developing a practical understanding of important thermodynamic and dynamic processes in the ocean which are a key to the mixing motions that so strongly influence ocean circulation and heat transport.

Dr. Robert F. Anderson (USA) – 2005 – Interdisciplinary Marine Science

Dr. Anderson was honoured for his innovative contributions in the fields of biochemical cycles, ocean sedimentation and climate variability, through his development and use of pioneering radioisotope tracers.

Dr. Lynne D. Talley (U.S.A.) – 2003 – Physical/Chemical Oceanography

Dr. Talley was honoured for her outstanding contributions to the description and understanding of the circulation and ventilation of the global ocean.

Dr. Donald W. Forsyth (U.S.A.) – 2002 – Marine Geosciences

Dr. Forsyth was recognized for his outstanding contributions to understanding oceanic crustal structure and mantle dynamics.

Dr. David M. Karl (U.S.A.) – 2001 – Biological Oceanography

Dr. Karl was selected for his fundamental contributions to improving understanding of the biochemistry, microbiology and genomics of ocean ecosystems and their role in global processes.

Dr. William Jenkins (England) – 2000 – Physical/Chemical Oceanography

Dr. Jenkins was honoured for his important contributions to the development of the tritium–helium dating technique and its application to studies of ocean circulation, mixing and productivity.

Professor I. Nicholas McCave (England) – 1999 – Marine Geosciences

Prof. McCave was honoured for his outstanding contributions to understanding the dynamics of fine sediments in a diversity of marine environments, ranging from the nearshore to the deep sea.

Dr. P. Falkowski (U.S.A.) – 1998 – Biological Oceanography

Dr. Falkowski was selected for his fundamental contributions to a broad spectrum of ocean sciences, from pico–second molecular biophysics to the billion–year evolution of ocean–atmosphere biogeochemistry.

Dr. R. Davis (U.S.A.) – 1997 – Physical/Chemical Oceanography

Dr. Davis was recognized for his fundamental contributions to the understanding of Lagrangian circulation dynamics, including instrumentation development, observational programs and theoretical studies.

Dr. R. Detrick (U.S.A.) – 1996 – Marine Geosciences

Dr. Detrick received this award in recognition of his fundamental and pioneering contributions to our understanding of the genesis and evolution of oceanic lithosphere.

Dr. V. Smetacek (Germany) – 1995 – Biological Oceanography

Dr. Smetacek was selected for his fundamental and visionary contributions to the biogeochemistry of the ocean water column and its associated sediments in temperate and polar ecosystems.

Dr. E.A. Boyle (U.S.A.) – 1994 – Physical/Chemical Oceanography

Dr. Boyle was selected for his fundamental work and leadership in developing an important discipline in marine geochemistry (paleo–oceanographic chemistry) that uses trace metal contents of foraminiferal shells to retrieve historical data on nutrients, productivity, and deep–water circulation of the oceans.

Dr. R.A. Berner (U.S.A.) – 1993 – Marine Geosciences

Dr. Berner was selected for his ideas on mathematical modelling of kinetics, which transformed sedimentary geochemistry from an almost purely descriptive science to one of prediction and quantitative understanding.

Dr. T. Platt (Canada) – 1992 – Biological Oceanography

Dr. Platt was recognized for his fundamental and wide-ranging research into the functioning of pelagic ecosystems, especially of the open ocean, and critical computations of global oceanic algal productivity.

Dr. G.T. Csanady (U.S.A.) – 1991 – Physical/Chemical Oceanography

Dr. Csanady received the award for his fundamental contributions to the understanding of circulation and mixing on the continental shelf and in lakes.

Dr. N.J. Shackleton (England) – 1990 – Marine Geosciences

Dr. Shackleton was recognized for his innovative work on paleo-oceanography and the development of oxygen isotopic stratigraphy.

Dr. L.R. Pomeroy (U.S.A.) – 1989 – Biological Oceanography

Dr. Pomeroy has studied extensively and broadened the knowledge of the role of bacteria in oceanic food chains.

Professor C. Wunsch (U.S.A.) – 1988 – Physical/Chemical Oceanography

Prof. Wunsch has contributed continuously to new global perspectives of the oceans and their integration into the global climate system.

Professor X. Le Pichon (France) – 1987 – Marine Geosciences

Prof. Le Pichon was recognized for his leadership and analytical skill in the formulation and application of the principles of plate tectonics.

Dr. T.M. Fenchel (Denmark) – 1986 – Biological Oceanography

Dr. Tom Fenchel performed world-renowned fundamental studies of microfauna in marine benthic and pelagic communities.

Dr. W.S. Broecker (U.S.A.) – 1985 – Physical/Chemical Oceanography

Dr. Broecker was recognized for his outstanding studies of geochemical processes determining concentrations of key elements and their role in the world's climate.

Dr. W.H. Berger (U.S.A.) – 1984 – Marine Geosciences

Dr. Berger received the award for his studies of deep-sea sediments and their chemistry.

Dr. R. Lasker (U.S.A.) – 1983 – Biological Oceanography

Dr. Lasker was honoured for his fundamental contributions toward furthering our understanding of population biology of the California anchovy.

Professor C.J.R. Garrett (Canada) – 1982 – Physical/Chemical Oceanography

Dr. Garrett carried out fundamental studies leading to an understanding of the mixing processes of the waters of the sea surface.

Dr. J.T. Wilson (Canada) – 1981 – Marine Geosciences

Dr. Wilson was honoured for his pioneering work in the field of global geology, for his contributions to the modern formation of continental drift theory, and his activities introducing science to Canada's younger generations.

Dr. D.P. McKenzie (England) – 1980 – Marine Geosciences

Dr. McKenzie contributed fundamentally to the field of continental drift studies with his research into the subcrustal dynamics and processes underlying ocean formation and deep-ocean ridge building.

Dr. H.M. Stommel (U.S.A.) – 1980 – Physical/Chemical Oceanography

Dr. Stommel has studied and continues to contribute significantly to our understanding of the properties of major oceanic current systems.

Professor R. Margalef (Spain) – 1980 – Biological Oceanography

Prof. Margalef was recognized for his life-long study of the processes governing the distribution of the world's oceanic plankton, the basis of the ocean's foodchain.