

# Keith Alverson

IOC/UNESCO, 1 Rue Miollis, 75732 Paris Cedex 15, France  
tel: +33 (0) 1 45 68 40 42 fax: +33 (0) 1 45 68 58 13 email: k.alverson@unesco.org  
Citizenship: USA

## *PROFESSIONAL SKILLS*

**International Science Management:** Thorough knowledge of international and intergovernmental climate and environmental programs. Cross cultural skills and experience in developing countries. Multilingual. International program management.

**Environmental Science:** Paleoclimatology, Physical Oceanography, Climate Dynamics, Numerical Modeling, Statistical Analysis.

## *EDUCATION*

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|--------|---|--|------|
| Ph.D.  | Massachusetts Inst. of Technology<br>Woods Hole Oceanographic Inst. | Earth, Atmospheric and Planetary Sciences<br>Physical Oceanography | 1995 |
| B.S.E. | Princeton University  | Mechanical and Aerospace Engineering<br>and East Asian Studies     | 1988 |

## *EMPLOYMENT*

**Intergovernmental Oceanographic Commission, UNESCO Paris, France** 2004-present

**Director** of Global Ocean Observing System (GOOS) program office and UNESCO/IOC **Section Head** for Observational Oceanography.

Manage 6 staff and budget of ~\$700,000 per annum at headquarters in Paris as well as several regional offices worldwide. Facilitate international scientific cooperation through intergovernmental mechanisms. Represent GOOS at international meetings.

**IGBP-PAGES International Project Office, Bern, Switzerland** 2001-2004

**Executive Director.** Managed 5 staff and budget of ~\$500,000 per annum.

**IGBP-PAGES International Project Office, Bern, Switzerland** 1997-2000

**Science Officer and Acting Director.**

**University of Toronto, Toronto, Canada** 1996-1997

**Postdoctoral Scientist.** Canadian Climate System History and Dynamics Project.

## *Selected Peer-reviewed Publications (of 23)*

- Solomina O. and K. Alverson "High Latitude Eurasian Paleoenvironments: Introduction and Synthesis" *Paleo-geography, -climatology, -ecology*, 209, 1-18, 2004.
- Moore, G.W.K., G. Holdsworth and K. Alverson "Climate change in the North Pacific region over the last three centuries," *Nature*, 420, 401-403, 2002.
- Moore, G.W.K., K. Alverson and I. Renfrew, "A Reconstruction of the Air-Sea Interaction Associated with the Weddell Polynya," *Journal Physical Oceanography*, 32, 1685-1698, 2002.
- LeGrand P. and K. Alverson "Variations in Atmospheric CO<sub>2</sub> During Glacial Cycles from an Inverse Ocean Modeling Perspective," *Paleoceanography*, 16, 6, 604-616, 2001.
- Alverson, K and W.B. Owens, "Topographic Preconditioning of Open Ocean Deep Convection," *Journal of Physical Oceanography*, 26, 2196-2213, 1996.

### ***Books and Special Issues***

- Grosskurth, J., K. Ross and K. Alverson, eds. Papers from the International Young Scientists Global Change Conference, *Global and Planetary Change*, Elsevier, in press.
- Alverson K. and Solomina, O. eds. High Latitude Eurasian Paleoenvironments, *Paleogeography, Paleoclimatology, Paleoecology*, Elsevier, 209, 1-4, 358 pgs, 2004.
- Alverson, K., R. Bradley and T. Pedersen eds. Paleoclimate, Global Change and the Future, International Geosphere Biosphere Programme Book Series, Springer Verlag, 221 pgs, 2002.
- Alverson, K., F. Oldfield and R. Bradley eds. "Past Global Changes and Their Significance for the Future", Elsevier, 465 pgs, 2000. [Also appeared as a special issue of Quaternary Science Reviews, 19, 1-5, 2000]

### ***Selected Outreach Publications (of 33)***

- Alverson, K, R. Sonnerup, G.W.K. Moore and G. Holdsworth "Global Change and Resource Sustainability: Some Fishy Thoughts" *IGBP Global Change News*, 53, 13-18, 2003.
- Alverson K., R. Bradley and T. Pedersen, *Environmental Variability and Climate Change*, IGBP Science Series No.3, 32 pgs, 2001.
- Alverson, K., R. Bradley, K. Briffa, J. Cole, M. Hughes, I. Larocque, T. Pedersen, L. Thompson, S. Tudhope "The Need for a Global Paleoclimate Observing System" *Science*, 293, 47-48, 2001.
- Alverson, K. and M. Eakin "Make the most of palaeodata" *Nature*, 412, 269, 2001.

### ***Selected Professional Activities***

- Editor*: EOS, Transactions of the American Geophysical Union, 2001-present
- President*, International Commission on Climate (ICCL) of the International Association of Meteorology and Atmospheric Sciences (IAMAS), 2003-present
- Executive Committee*: International Association of Meteorology and Atmospheric Sciences (IAMAS), 2003-present
- Executive Committee*: American Geophysical Union, Ocean Sciences, 2001-present
- Advisory Board*: German Ministry of Science, Priority Program DEKLIM, 2000-present
- Editorial Board*: Developments in Paleoenvironmental Research, Kluwer, 2000-present
- Proposal Reviewer*: US National Science Foundation, European Science Foundation, BMBF (Germany), Netherlands Organization for Scientific Research, Inter American Institute (IAI), System for Analysis, Research and Training (START)

### ***Field Work in Polar Regions***

- 1986 Weddell Sea, Antarctic. Microwave telemetry of sea ice deformation. RV Polarstern.
- 1984 Fram Strait, Arctic. Microwave telemetry of sea ice deformation. RV Polar Queen.