

BRIEF C.V. of Tison, Jean-Louis - 2010

Address: Laboratoire de Glaciologie
Université Libre de Bruxelles (CP160/03)
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Belgique

CURRENT POSITION : Professor and Head of Department, Université Libre de Bruxelles (ULB)

EDUCATION : Master in Sc. (1976), PhD in Sc. (1981), Agrégé en Sc. (2002)

RESEARCH and ACADEMIC CAREER: Research Fellow (FNRS, 1977-1980), Teacher (Decroly; 1981-1985), Postdoctoral Research Fellow (OSTC, 1985-1988), Postdoctoral researcher (FNRS, 1988), Research Associate (FNRS, 1989-2002), Professor (ULB, 2002-)

PUBLICATIONS in PEER REVIEWED INTERNATIONAL JOURNALS: 88 (including: Nature, EPSL, JGR, GRL, GCA, Ant. Res. Ser., J. Glac, Aquat. Microb. Ecol., DSR, Ant. Sc., AAR)

PRESENTATIONS AT INTERNATIONAL SYMPOSIA: 106 (including: NZ, Greenland, US (California, Alaska), UK, Italy, China, Australia, F, D, Switzerland, Sweden, Canada)

AWARDS: Wiley Award (1990), Descartes Award (EPICA - EU; 2008)

FIELD EXPERIENCE: Arctic Regions (5), Antarctic (13 - USA, D, Australia, NZ, I, F, UK), Alpine Regions (16)

OTHER INTERNATIONAL WORKING TRIPS: 85 (NZ, UK, Italy, F, D, Switzerland, Denmark, Canada, USA...)

PEER REVIEWING IN JOURNALS and BOOKS

Journals: Journal of Glaciology, Journal of Geophysical Research, Geophysical Research Letters, Annals of Glaciology, Nature, Earth and Planetary Sciences Letters, Sedimentology, Antarctic Science, AGU Special Publications

Books: John Wiley and Sons, London Geological Society

REFEREE FOR INTERNATIONAL POLAR RESEARCH FUNDING AGENCIES

National Environmental Research Council (NERC - UK), National Science Foundation (NSF - USA), Expéditions Polaires Françaises (EPF-IPEV - France), ANR (France)

SCIENCE STEERING COMMITTEES

BASICS in IPY (Biogeochemistry of Antarctic Sea Ice and the Climate System), ASPeCt (Antarctic Sea ice Processes and Climate - member of SCAR), GRIP (Greenland Ice Core Project), EPICA (European project for Ice Coring in Antarctica), EPB (European Polar Board), EPC (European polar Consortium)

CONTRIBUTION TO NATIONAL AND INTERNATIONAL RESEARCH PROJECTS: 20 (1989-2013)

BROAD RESEARCH INTERESTS

I have developed my expertise in glaciological studies of high-altitude temperate and polar regions as a member of the Glaciology Laboratory of the Earth and Environmental Sciences Department of the Université Libre de Bruxelles since 1977. For more than 40 years now, this laboratory has focused his activities on the study of physico-chemical properties of « interface ice », be it the « ice-bedrock », « ice-ocean » or « ice-atmosphere » interface. My expertise is based on numerous "ice-oriented" field expeditions (16 in the Alps, 12 in Antarctica and 4 in the Arctic regions) and laboratory experiments, and on the development of equipments and analytical techniques dedicated to the multi-parametric study of ice rich in solid or liquid impurities : textures and fabrics, stable isotopes of oxygen and hydrogen, total gas content and gas composition, bulk salinity, major elements chemistry...The main objective of this research effort is a better understanding of initial and boundary conditions of large ice masses (continental or marine), together with a comprehensive approach of the processes governing their interactions with the climate, more specially in the framework of the potential impact of mankind on future climate at a global scale.