

THE UNIVERSITY OF MICHIGAN

Regents Communication

ACTION REQUEST

Subject: Report of Faculty Retirement

Action Requested: Adoption of Retirement Memoir

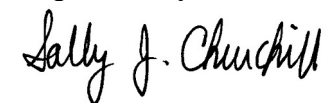
Olivier J. Jolliet, Ph.D., professor of environmental health sciences in the Department of Environmental Health Sciences, School of Public Health, retired from active faculty status on November 30, 2022.

Professor Jolliet earned a Baccalauréat in Latin-Mathematics from the Gymnase de la Cité in Lausanne (1978), and an M.S. (1983) and Ph.D. (1988) degrees in physics from the Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland, while teaching building physics as a professor at the University of Applied Sciences in Geneva, Switzerland. He carried out research on energy and water balance as a postdoctoral fellow at the Silsoe Research Institute, UK (1989-1991). He was project leader in life cycle assessment at the Swiss Federal Research Station for Farm Management and Agricultural Engineering, Taenikon (1991-1993) and at the Institute of Soil and Water Management of the EPFL, while supporting the EPFL president as personal scientific assistant (1993-1998). He then became an assistant professor in sustainable development at the Ecole Polytechnique Fédérale de Lausanne (1999-2005). He was appointed an associate professor with tenure in environmental health sciences at the School of Public Health in 2005 and was promoted as full professor in the Department of Environmental Health Sciences in 2011. While on sabbatical leave, Professor Jolliet was a visiting scholar at the Massachusetts Institute of Technology (MIT, 1997), the National Lawrence Berkeley Laboratory (2004), the University of Sydney (2013), the University of Queensland and the Technical University Denmark (2019).

Professor Jolliet is an internationally recognized expert in life cycle impact assessment and exposure modeling. He has pioneered mass balance methods and models from nanoscale to world to quantify the multi-dimensional environmental and human health impacts of multiple chemicals, foods & products over their entire life cycle. He introduced the intake fraction and the product intake fraction as adequate metrics to determine exposures to chemicals in products for more than 20,000 product-chemical combinations, identifying chemicals of concerns in building materials, toys, personal care products, and cleaning products. He has operationalized an exposome-based approach to analyze the combined effect and respective importance of physiological indicators, job occupations, chemical biomarkers, nutrients & foods, and physical exercise on all-cause mortality. Professor Jolliet pioneered the development of life cycle methods towards healthy and sustainable foods. This work on sustainable food systems culminated in his recent *Nature Foods* publication determining the minutes of healthy life gained and lost for 5,800 individual foods, a high impact research reported by more than 1,000 news media, with a potential reach of 1.3 billion people worldwide. Professor Jolliet co-initiated the Life Cycle Initiative hosted by the United Nations Environment Program (UNEP), and presently leads the effort of more than 150 scientists worldwide to develop a global life cycle impact assessment method. He was a lead author on chemicals in products and exposure for the high-level UNEP publication *Global Chemical Outlook II* and co-investigator in the ExpoDat initiative with US-EPA. He is proud to have mentored graduate students and post-doctoral fellows from several academic disciplines that have gone on to successful careers in academia, industry, and government.

The Regents now salute this distinguished faculty member by naming **Olivier J. Jolliet, professor emeritus of environmental health sciences**.

Requested by:



Sally J. Churchill, J.D.
Vice President and Secretary of the University

October 2022