

In Memoriam: Franco Einaudi

Peter van Oevelen

Director, International GEWEX Project Office



It is with a sad and heavy heart we report the passing of Dr. Franco Einaudi on December 10, 2020. Born in Turin, Italy, on October 31, 1937, he graduated from the Politecnico di Torino in 1961 and a year later he came to the U.S. Franco became a member of the GEWEX Scientific Steering Group (SSG) in 2004, the same year I joined GEWEX as the European GEWEX Coordinator.

At that time, he was the Director of Earth Sciences at the Goddard Space Flight Center and was familiar to many in the GEWEX community. Franco's scientific interests were broad, and the areas of expertise that made him an invaluable member of the SSG were a reflection of that: atmospheric dynamics, the stability theory of stratified flows, the generation and propagation of gravity waves, mesoscale and microscale processes, triggering of condensation and convection by gravity waves, and gravity wave-turbulence interactions, among others. I remember him as warm and kind, easy to approach and work with. We will miss Franco for all his scientific contributions and his support of GEWEX, but above all, he will be remembered for the kind person he was. We wish strength to his family and friends. A longer obituary can be found at <https://www.legacy.com/obituaries/baltimoresun/obituary.aspx?pid=197279343>.

Sources

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In Memoriam: Jim Shuttleworth

Hoshin Gupta¹, Thomas Maddock III¹, and Xubin Zeng¹

¹The University of Arizona



William James Shuttleworth, Emeritus Regents Professor of Hydrology and Atmospheric Sciences (HAS) at The University of Arizona (UA), affectionately called "Jim" by all those who knew him, passed away on Sunday, 20 December 2020. Jim was an incredibly warm, kind, and compassionate person, and will be deeply missed.

Jim was trained in high energy nuclear physics, but decided to use his experimental and quantitative background to pursue hydrology research at the Institute of Hydrology in the UK, and later became its Hydrological Processes Division Head. He was recruited by Soroosh Sorooshian to UA in 1993. With his deep interest in terrestrial hydrometeorology, he actively pushed for the creation of the degree program in hydrometeorology and spearheaded the formation of HAS at UA. He also served as the second director of the National Science Foundation Science and Technology Center for Sustainability of Semi-Arid Hydrology and Riparian Areas (SAHRA), from 2004 to 2008.

Jim's research focused on how climate change is affected by land surfaces, and he was particularly interested in the effects of global climate change caused by deforestation in the Amazon basin and desert formation in Africa. He received many international recognitions, and notably was awarded the International Hydrology Prize in 2006. Just before retiring, Jim published *Terrestrial Hydrometeorology*, widely considered to be the definitive textbook on the subject. Jim was also active in national and international program planning, including his important role in the GEWEX Continental International Project (GCIP).

We are reminded of the following advice given by Jim to young scientists in his acceptance of the International Hydrology Prize:

- First, in one's progress through life there are basically two ways to proceed: either to take safe, small steps or make risky leaps forward, recognizing that in the latter case one is bound to fail about half of the time. In my experience, the latter way ultimately leads to more rapid progress and is certainly more exciting! Do not be afraid of risks.
- Second, as a young scientist, respect the established peers in your field, and listen to what they say, but don't necessarily believe them! Always question.
- Finally, and perhaps most importantly, remember that it is very difficult to keep your own end of the boat afloat while trying to sink the person at the other end. Water is the life-blood of the earth system, and water is a commodity we necessarily all must share. In this respect, we are all in the same boat.