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Editorial

Gad Hetsroni created this journal 28 years ago. He is turning 65 on the 10th of October 1999. Last year, I wrote to all Associate Editors, members of the Editorial Board, and other persons of the multiphase flow community closely involved with the Journal, soliciting contributions for this Festschrift honoring him, the Editor. The response and the result were rather overwhelming: 23 articles from some of the most prominent members of this large family. Each author is congratulating Gad in a few sentences below the list of authors. Some of those who, for various reasons, could not contribute, added their good wishes in the "Postcard" that follows. Graham Wallis wrote a poem (the only contribution published unreviewed). The response confirmed what we knew already: Gad has many friends and he deserves them. It will be difficult to add to this collection of good wishes, expressions of admiration, affection and friendship in this Editorial.

Gad Hetsroni was born in Haifa, Israel. He graduated with a B.Sc. cum laude from the Technion in 1957 and got his Ph.D. from Michigan State University in 1963. He was with the Atomic Power Division of Westinghouse for a couple of years before joining the Faculty of the Technion in 1965; since 1974 he is Danciger Professor of Engineering. In the US, he has held positions also with the Electric Power Research Institute. In his home institution, he has served as Dean of Mechanical Engineering, and as Head of the Neaman Institute for Advanced Studies. He was also Head of the National Council for Research and Development in Israel.

Gad, citizen of the world, likes to travel: he was Visiting Professor at Carnegie Mellon University, Stanford University, the University of California-Santa Barbara, the University of Minnesota and the University of New South Wales. He is presently the Vice President for Region XIII of ASME International (the "rest of the world" outside the US is his responsibility), and is now Governor elect of that society.

Gad Hetsroni has been one of the very few individuals who have been so intimately identified with multiphase flow research for so many years. Aside from his very numerous original and often pioneering direct research contributions, he has had a major impact on the field by identifying and bringing together the multiphase flow community around this Journal. Gad likes to talk about the birth of the Journal, his early discussions with colleagues and the Pergamon Publisher, the late Bob Maxwell, his search for Associate Editors and...authors for the first issue. Things were going smoothly until he heard that Professor Hugh Simpson had initiated a new journal, with Elsevier, to be called the *Int. Journal of Multi-Phase Flow*. He realized that the two-phase flow field could not sustain two good journals (the only exception

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to his rule "two is better than one"). Although one journal was hyphenated and the other was not, he went to see Hugh and they agreed to join the two and remove the hyphen. So, Hugh Simpson became also Editor for many years, and Elsevier and Pergamon became joint publishers — the only such joint venture, and the only Journal that had both publishers' names on it; a wise decision. With no proliferation of similar journals, the publishing standards could be kept high, and Gad's child remains the undisputed authority in the field. The Journal has clearly had a major impact in defining this new field and giving it substance and status.

I will not review the research contributions of Gad Hetsroni here. He was often the first and the best: seminal work on fluid-particle interactions, the motion of drops in Stokesian fields, more practically oriented work on two-phase flow in steam generators, pioneering work on the interaction between turbulence and particles, infrared radiometry to measure the interactions of particles with the wall,...the list is not yet complete.

Professor Hetsroni has been passing on the basic knowledge on multiphase flows to many generations of researchers, scientists and engineers. Twenty years ago, at Stanford, he started the now famous series of Short Courses on Multiphase Flow and Heat Transfer. The tradition continued at the University of California-Santa Barbara and is still vigorously going on today at the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland. The Zurich course has had this year its 1000th student; it has been quite an experience for the close circle of friends teaching it; the participants have "propagated the multiphase flow message" through Europe and the world. At the various academic institutions with which he was associated during his long and fruitful academic career, Gad directed some 35 doctoral and masters' students; I could be wrong with the number, his academic research is continuing and he keeps producing students and research. This is another way Gad Hetsroni made a major impact on the multiphase-flow community.

Those of us who know Gad well also greatly appreciate his human qualities, concern for friends, sense of humor, love for music, good food and other good things in life, curiosity for anything new.

Gad is married to Ruth (born Gurevitz); they had three beautiful daughters, Anath, Orli (1965–1986) and Yael. Gad, we know how important your family is to you; we extend to them our best wishes on this occasion. Your multiphase friends who truly appreciate and enjoy your company wish you

Happy Birthday and many happy returns!

G. Yadigaroglu

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