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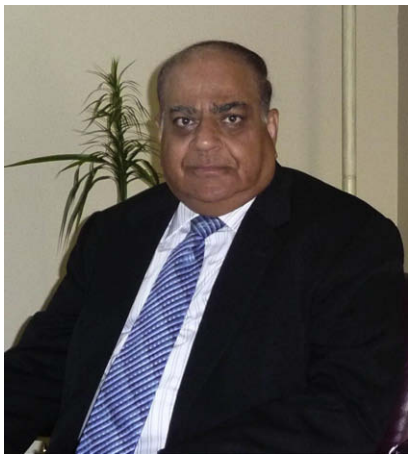
In Celebration

Professor Yogesh Jaluria on his 60th birthday



Professor Yogesh Jaluria celebrates his 60th birthday this year. He is a well-respected contributor to the heat transfer community, not only because of his technical expertise but also because of his willingness to serve the community in a variety of functions, to aid colleagues and students whenever asked, and to be a mentor to countless individuals. He has successfully balanced career and family, all the while maintaining a pleasant, cheerful demeanor and being a gentleman in his interactions with one and all.

Yogesh Jaluria is currently Board of Governors Professor and Chairman of the Department of Mechanical and Aerospace Engineering at Rutgers, the State University of New Jersey, and recently served as Interim Dean of the School of Engineering. He received his B.S. degree from the Indian Institute of Technology, Delhi, India, in 1970, standing first in the graduating class. He obtained his M.S. and Ph.D. degrees in Mechanical Engineering from Cornell University in 1972 and 1974, respectively. He worked at AT&T Bell Laboratories, Princeton, during 1974 to 1976 and at the Indian Institute of Technology, Kanpur, India, during 1976 to 1980, before joining Rutgers University in September 1980. While on the faculty at IIT Kanpur he introduced new elective heat transfer courses dealing with contemporary applications such as materials processing, solar energy utilization, environmental transport processes, and electronics cooling. He also established research activities on these topics, and strongly encouraged the participation of undergraduate students as research assistants. For many, this early exposure to hands on experiments and numerical modeling related to exciting topics in heat transfer motivated graduate education and lifelong careers in the field.

Professor Jaluria has carried out research in several diverse areas, particularly natural and mixed convection heat transfer, enclosure fires, thermal processing of materials including glass, metals, polymers and food, environmental transport processes, design of thermal systems, computational heat transfer and energy systems. His work in the USA has been extensively supported by federal agencies, such as the National Science Foundation, the National Institute of Standards and Technology, and the U.S. Department of Agriculture, by the State of New Jersey and by industry. In India, he was supported by the Council of Scientific and Industrial Research, the Department of Science and Technology, Steel Authority of India and by industry. He has also interacted with several industries and research centers in these research areas. Although Professor Jaluria has done extensive research in numerical/computational heat transfer, the hallmark of his research philosophy has been the emphasis on the physics of the problem and not getting carried away by the numerical aspects.

Professor Jaluria is the author of over 400 technical publications, including over 170 in archival journals and 16 chapters in books. He has two patents in materials processing and some of his computer software has been copyrighted. He is the author of a graduate level textbook *Natural Convection Heat and Mass Transfer* (Pergamon Press, 1980) which has been translated in many languages, and an undergraduate textbook *Computer Methods for Engineering* (Prentice-Hall, 1988; Taylor and Francis, 1996). He is the first author of a graduate level textbook entitled *Computational Heat Transfer* (Hemisphere, 1986) and its greatly expanded and updated second edition (Taylor & Francis, 2003). He is also a co-author of a graduate textbook entitled *Buoyancy-Induced Flows and Transport* (Taylor and Francis, 1988). He is the author of another textbook *Design and Optimization of Thermal Systems* (McGraw Hill, 1998), as well as its Second Edition (CRC Press, 2008) with MATLAB applications. All these books have received outstanding reviews, and the two books on natural convection have been translated into Russian. Professor Jaluria is also a co-editor of twelve conference proceedings, one book and two special issues of archival journals.

Professor Jaluria's honors and awards include the 2007 Donald Q. Kern Award from the American Society of Chemical Engineers (AIChE) for outstanding work in heat transfer or energy conversion, the 2007 Heat Transfer Division Classic Paper Award from the American Society of Mechanical Engineers (ASME), the 2003 Richard Henry Thurston Lecture Award from ASME, the 2002 Max Jakob Memorial Award from AIChE and ASME for distinguished work in heat transfer, the 2000 Freeman Scholar Award for the application entitled "Fluid Flow Phenomena in Materials Processing" from

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ASME, the 1999 Worcester Reed Warner Medal for outstanding contribution to the permanent literature of engineering from ASME, the 1995 Heat Transfer Memorial Award for Science for significant research contributions to the science of heat transfer from ASME, the 1994 Distinguished Alumni Award from the Indian Institute of Technology, Delhi, the 1979 Young Scientist Medal from the Indian National Science Academy, and a Certificate of Recognition from the National Institute of Standards and Technology. He was the Hawkins Memorial Lecturer in Mechanical Engineering at Purdue University in 2006. He has been invited as a Distinguished Lecturer to NATO Advanced Study Institutes, as Research Leader to an NSF workshop, as speaker to a Department of Energy sponsored workshop on solar ponds, as panelist to national conferences, as invited, keynote or plenary speaker to over 20 international conferences, and as seminar speaker to many universities and research establishments. In addition to his numerous research achievements, Professor Jaluria is extremely mindful of his role as an educator. Through his guidance of 25 Doctoral and 30 Master's theses and the research of 13 Post-Doctoral Fellows, he continually places his student's welfare ahead of the research. This hallmark has left deep and long-lasting positive impressions on his students in areas beyond scientific research, particularly when it comes to knowing how to choose among conflicting priorities.

Professor Jaluria is a Fellow of the American Society of Mechanical Engineers, an Associate Fellow of the American Institute of Aeronautics and Astronautics, and a Member of the Combustion Institute and of the American Physical Society. He has been active as Committee Chairman, Program Chairman and Conference Chairman, within ASME. He served as a member of the Executive Committee of the Heat Transfer Division from 1998 to 2004, serving as Chair of the Division during 2002 to 2003. He is currently the Editor of the ASME *Journal of Heat Transfer*. He has also served as an Editor for *Computational Mechanics*, an international journal published by Springer International, and as an Associate Editor for the ASME *Journal of Heat Transfer*. He is currently a member of the Editorial Advisory Boards for *Numerical Heat Transfer*, *International Journal of Heat and Mass Transfer*, and *International Communications in Heat and Mass Transfer*. He has served on the Editorial Boards of several other journals, book series and international conferences.

The scholarly citations highlighted above reflect Professor Jaluria's scholastic accomplishments in research and his untiring and unselfish service to the world-wide thermal sciences and engineering community. His all-encompassing prestigious awards received clearly point to a giant unparalleled in our community. At a relatively young age of 60, his stellar accomplishments further illustrate that it is possible to reach such a high plateau of esteem, as a new benchmark, for the future bright and young members of our community to aspire upon. He is also well known in our community to be a person of great integrity and foresight. He is a natural leader in the pursuit of new technological and organizational ideas, by tirelessly working with many for the advancement of our world-wide community in thermal sciences and engineering. His generosity to give time to others to advance new ideas and resolve controversial issues has won him many friends, both here and abroad. He treats many of us as his friends, and all of us on a multitude of occasions have received his personal support and help.

Personally, Professor Jaluria has a tremendous fascination for history, philosophy, religion and culture, particularly ancient civilizations. He has spent hours poring over books and articles and is often seen immersed in discussions with friends and scholars on all kinds of topics in these areas. He also has great passion for traveling, a love he inherited from his parents who took the family to the far edges of India before he graduated high school. As a professor, he has had the pleasure of seeing the world and learning about different cultures first hand, with India, USA, Italy and France being his top choices for travel. Professor Jaluria and his wife, Anuradha, enjoy spending time with their children Pratik, Aseem, Ankur, Leslie (Pratik's wife), and their grandson, Vyan.

On behalf of his former students, colleagues, and friends from around the world, including the editors of this journal, we wish him a very happy 60th birthday and thank him for his technical contributions, visionary leadership, outstanding service, and for being a friend to many. Professor Jaluria is a great asset to our community, and we wish him the very best on his 60th birthday and continued unselfish leadership for years to come. Good health, happiness and prosperity to Professor Yogesh Jaluria and his family!

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