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In Celebration

## Professor Yogesh Jaluria on his 70th Birthday



Professor Yogesh Jaluria celebrates his 70th birthday this year. He is highly regarded and well-respected in the heat transfer community for his technical expertise, leadership, exemplary mentorship, and equally, for his kindness and willingness to help others. Through the years, he has served the community in a variety of functions, aided colleagues and students, and mentored countless individuals. One of Professor Jaluria's endearing qualities is the level of interest he takes in supporting the heat transfer community, his professional colleagues and the students. It is extremely rare to meet somebody so scientifically prepared, competent and bright, and at the same time kind, available and always friendly. We are honored to have Professor Jaluria as a colleague. This celebratory note will briefly summarize Professor Jaluria's professional and personal activities during the past ten years, since the publication of the article on the occasion of his 60th birthday (*Int. J. Heat Mass Transfer*, 52: 5283, 2009).

Professor Jaluria has remained highly prolific during these past ten years. He is currently Board of Governors Professor and Distinguished Professor at Rutgers, the State University of New Jersey, in the Mechanical and Aerospace Engineering Department. He served as Chairman of his department during 2005–2011, and as Interim Dean of Engineering during 2008–2009. He received his B.S. degree from the Indian Institute of Technology, Delhi, India, standing first in the Graduating class. He obtained his M.S. and Ph.D. degrees in Mechanical Engineering from Cornell University. He worked at AT&T Bell Laboratories, Princeton, and at the Indian Institute of

Technology Kanpur (IITK), before joining Rutgers University in 1980. At IITK he was the first faculty member to establish an undergraduate elective course on computational heat transfer. By engaging undergraduate students in contemporary heat transfer research topics on the environment, manufacturing, and solar thermal processes, he motivated several to pursue research and academic careers.

Professor Jaluria has always felt greatly indebted to his Ph.D. advisor, Professor B. Gebhart, who introduced him to heat transfer and to natural convection in particular. He had very enjoyable and instructive interactions with him over many years, even after his Ph.D., learning from his deep physical insight and impressive knowledge. He was a co-author with Prof. Gebhart on the book *Buoyancy-Induced Flows and Transport*, which has been extensively referenced and used around the world.

Professor Jaluria has continued to organize international conferences and serve the international heat transfer and fluids communities. In 2014, Professor Jaluria co-founded the American Society of Thermal and Fluids Engineers (ASTFE), an international organization that brings thermal and fluids researchers together and focuses on industry, international collaboration and young researchers entering the field. He currently serves as President of ASTFE. Most recently, Professor Jaluria has chaired several notable conferences, including the 7th International Symposium on Advances in Computational Heat Transfer (Naples, Italy, 2017), the 6th International Symposium on Advances in Computational Heat Transfer (Rutgers University, 2015), the 4th ASME Micro/Nanoscale Heat and Mass Transfer International Conference (Hong Kong, 2013), and served as Executive Committee Chair and Technical Program Chair for the 14th International Heat Transfer Conference (Washington, DC, 2010). He served as Chair of the Executive Committee, International Center for Heat and Mass Transfer (ICHMT), Turkey during 2015–2017, and is currently Member of the Executive Committee. He served as Chair of the ASME Heat Transfer Division Executive Committee (2003–2004), and he served as the Editor of the *Journal of Heat Transfer* (2005–2010) and *Computational Mechanics* (2003–2005). He was instrumental in starting a new ASME journal, the *Journal of Thermal Science and Engineering Applications*, which is focused on applied areas and is doing very well. He is on the Editorial Boards of several international journals.

He is the author/co-author of nine books in the areas of natural convection, computational methods, design, optimization and materials processing. All of these books have received outstanding reviews and the two books on Natural Convection have been translated into Russian, expanding their impact in Eastern Europe.

During the past decade, two of his books have undergone significant revision. *Design and Optimization of Thermal Systems* (2008) and *Computer Methods for Engineering with Matlab Applications* (2011), both by CRC Press (Taylor & Francis), Boca Raton, FL., are now published as Second Editions, updated and with Matlab applications. In 2018, Professor Jaluria published a new book *Advanced Materials Processing and Manufacturing* (Springer, Cham, Switzerland). This book focuses on advanced processing of new and emerging materials, and advanced manufacturing systems based on thermal transport and fluid flow. It is a culmination of Professor Jaluria's extensive work in this area. During his lifetime, Professor Jaluria has edited 10 books, 15 conference proceedings, and 9 special issues of archival journals. He has published over 210 journal papers, numerous conference papers, and 18 chapters in books, including many important review articles. He has graduated 31 Ph.D., 39 M.S., 18 post-doctoral and visiting researchers, with many others in progress, and presented a large number of plenary, keynote, and invited talks, and served as invited panelist. He has three patents in materials processing and some of his computer software has been copyrighted.

During the past decade, Professor Jaluria received a number of significant awards. In 2016, he received the *ICHMT Fellowship Award* from the International Center of Heat and Mass Transfer, the *Eminent Scientist Medal* from Wessex Institute, an international research organization for scientific achievements, and the *90th Anniversary Medal* from the ASME Fluids Engineering Division for seminal contributions to the discipline of fluids engineering. The Indian Society of Heat and Mass Transfer recognized Professor Jaluria in 2015 with the *Prof. M.V. Krishnamurthy Endowment Lecture Award* during his plenary lecture at the First International ISHMT-ASTFE Heat and Mass Transfer Conference, held during December 17–20 at Trivandrum, India. In 2013, Professor Jaluria was awarded the *75th Anniversary Medal* from the ASME Heat Transfer Division in recognition of his service to the community and contributions to the field. During the same year, he was named *Fellow* of the American Physical Society (APS) for pioneering and lasting contributions to a wide variety of fundamental and applied areas in fluid mechanics, and named *Fellow* of American Association for the Advancement of Science (AAAS) for contributions to fundamental and applied knowledge of heat transfer and fluid mechanics. In 2010, ASME recognized Professor Jaluria with a *Dedicated Service Award*, and two years later named him an *Honorary Member* of ASME for outstanding contributions to fundamental and applied areas of heat transfer and fluid mechanics; for editorial leadership on major engineering journals; and for contributions to engineering education that have had a significant impact on the engineering and wider communities. His career achievements and contributions led in 2010 to the *A.V. Luikov Award* from the International Center for Heat and Mass Transfer in recognition of outstanding work done over the career in Heat and Mass Transfer, the *William M.W. Mong Distinguished Lecture* from the University of Hong Kong on "Microscale Transport Phenomena in the Thermal Processing of New and Emerging Advanced Materials and Devices," and by the *Daniel Gorenstein Memorial Award and Lecture* at Rutgers University for outstanding scholarly achievement and exceptional service to the University community.

Several awards from Professor Jaluria's earlier career are worth noting, including the 2002 *Max Jakob Memorial Award*, the highest award in the field of heat transfer, from the American Society of Chemical Engineers (AIChE) and the American Society of Mechanical Engineers (ASME), the 2007 *Donald Q. Kern Award* from AIChE for outstanding work in heat transfer or energy conversion, and the 2003 *Richard Henry Thurston Lecture Award* from ASME. He received the 2000 *Freeman Scholar Award*, the 1999 *Worcester Reed Warner Medal* and the 1995 *Heat Transfer Memorial Award* all from ASME. He has also received the 1994 *Distinguished Alumni Award* from the Indian Institute of Technology, Delhi, and the 1979 *Young Scientist Medal* from the Indian National Science Academy.

The continued achievements during the past decade reflect Professor Jaluria's excellence in his work, and his untiring and unselfish service to the international thermal sciences and engineering community. He continues to be as energetic and inspiring as some of us remember him from 1978 to 80 time frame. He is a natural leader, exceptional teacher and mentor, with accomplishments that serve as inspiration and have advanced our worldwide community. Many are aware of his generosity and sincerity, and most of us on many occasions have received his personal support and help.

Professor Jaluria and his wife, Anuradha, enjoy seeing the world and learning about different cultures first hand. His tremendous fascination for history, philosophy, religion and culture, particularly ancient civilizations, has taken him all over the world. When at home, he enjoys spending time with their children Pratik, Aseem, and Ankur, their spouses, Leslie, Karishma and Russell, and their grandsons, Vyan, Nalin, Zev and Jai.

On behalf of his former students, colleagues, and friends from around the world, we offer congratulations to Dr. Jaluria on the occasion of his 70th Birthday and on a stellar career. We have greatly enjoyed working with him over these many years and have always found our interactions stimulating, informative and enormously enjoyable. We and many other friends and colleagues from around the world wish him hearty good health, continued creative activity and cheerful spirit on his 70th birthday.

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