

Brief Bio-Data of Dr. P. Palanichamy



Dr. P. PALANICHAMY is a Retired Senior Scientist from the Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Tamilnadu. He has joined IGCAR during 1984. He is Ph. D. holder in Physics from the Indian Institute of Technology, Delhi, Master Degree from Madurai Kamaraj University, He was the past Vice-President of Ultrasonic Society of India (USI) and Fellow of the USI and active Member of the Indian Society for Nondestructive Testing (ISNT).

He is specialized in the area of advanced ultrasonics and well known Nationally and Internationally for his contributions on the characterisation of materials, microstructures, mechanical property evaluation and residual stress measurements. He is now working towards the development and implementation of ultrasonic techniques for on-line testing and evaluation of materials and components, suitable to industrial environment. Few of the developed techniques by him have been implemented in the Indian and Foreign Industries.

He is the recipient of many prestigious awards from the USI, Indian Institute of Welding (IIW) and ISNT. He has conducted several basic classes for the Level-I & Level-II Certification Courses in Ultrasonics.

He is the recipient of DAAD - German Fellowship, and National Aeronautics and Space Administration (NASA) Summer Fellowship, USA during 1998. He had been to the International Centre for Theoretical Physics (ICTP) during 1984 on Invitation.

Dr. Palanichamy holds two Indian Patents, author of two books and contributed important Chapters for two welding related books. He has more than 100 publications in National and International Journals and several Invited Talks.

Even after his retirement from service, he continues to have many interactions and research collaborations with several Indian Universities and Educational Institutions in the area of Ultrasonics and Photoacoustics. He has a special interest on the *in-vivo* characterisation of kidney stones using ultrasonics and currently working towards the fabrication of cost effective, user

friendly and stand alone instrumentation for the measurements of ultrasonic attenuation and velocity measurements. Anybody interested is welcome to join him.

Publications of Dr. P. Palanichamy

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2. P. Vasantharaja, M. Vasudevan and P. Palanichamy, "Effect of welding processes on the residual stress and distortion in type 316LN stainless steel weld joints", *J. of Manufacturing Processes*, Vol. 19, pp. 189 – 193, 2015.
3. A. Joseph, P. Palanichamy and T. Jayakumar, "Evaluation of Residual Stresses in Carbon Steel Weld Joints by Ultrasonic L Wave Technique", *Journal of Nondestructive Evaluation*, Vol. 34(1), pp. 1-7, 2015.
4. M. Vasudevan, R. Shanmugasundaram, B. Arivazhagan, P. Vasantharaja and P. Palanichamy, "Nondestructive Assessment of Residual Stresses and Distortion in Austenitic Stainless Steel Weld Joints", *Materials Evaluation*, Vol. 72(12), pp. 1509-1518, 2014.
5. P. Palanichamy, V.S. Srinivasan, T. Jayakumar and V. Rajendran, "Microstructural Characterization of Fatigue and Creep-Fatigue Damaged 316L(N) Stainless Steel through Ultrasonic Measurements", *Procedia Engineering*, Vol. 55, pp. 154 – 159, 2013.
6. P. Palanichamy, M. Sivabharathy, K. Jeyadheepan, P. Kalyanasundaram, K. Ramachandran and C. Sanjeeviraja, "X-ray and photoacoustic studies on zircaloy-2", *Materials Science Forum*, Vol. 699, pp. 141-151, 2012.