

Journal of Pure and Applied
Ultrasonics

Study of molecular interactions in aprotic - aprotic binary mixtures through ultrasonic measurements	41
– S. Prabakar and K. Rajagopal	
Ultrasonic studies on molecular interactions in binary mixtures of acetonitrile with carbonyl molecules	49
– S. Anuradha, S. Prema and K. Rajagopal	
Quantitative ultrasound technique for the assessment of osteoporosis and prediction of fracture risk	55
– M.S. Holi, S. Radhakrishnan, S. Swaranamani and N.A. Jayavelan	
Ultrasonic velocity, viscosity and density studies of poly (ethylene glycols)(PEG - 8,000, PEG - 20,000) in acetonitrile (AN) and water (H₂O) mixtures at 25°C	61
– V.K. Syal, Anita Chauhan and Suvarcha Chauhan	
Effect of coupling conditions on ultrasonic echo parameters	70
– Ashok Kumar, Nidhi Gupta, Reeta Gupta and Yudhisther Kumar	
Ultrasonic study on the role of Na₂O on the structure of Na₂O-B₂O₃ and Na₂O-B₂O₃- SiO₂ glasses	80
– L.Abd El Latif	
Acoustical studies of binary mixture of nonane and 1-propanol at 298, 308 and 318 K	92
– Rita Mehra and Meenakshi Pancholi	
Ultrasonic behaviour of dilute solutions of water in amines	98
– G. Venkata Ramana, E. Rajagopal and N. Manohara Murthy	
Report on National Symposium on Ultrasonics (XIII - NSU 2004)	103

Website: <http://www.ultrasonicsindia.com>



A Publication of — Ultrasonics Society of India



Ultrasonics Society of India

Ultrasonics Society of India established in 1974, is engaged in the promotion of research and diffusion of knowledge concerning the field of ultrasonics. Membership of the Society is open to individuals without distinction of sex, race or nationality and to recognized bodies who subscribe to the aims and objectives of the Society.

Patrons: Dr. A. R. Verma
Dr. V. N. Bindal
Prof. E.S.R. Gopal

Executive Council :

President Dr. Krishan Lal
Vice Presidents Dr. V.R. Singh
Dr. Janardan Singh
General Secretary Mr. S.K. Singhal
Treasurer Mr. G.K. Kohli
Publication Secretary Dr. Yudhisther K. Yadav
Joint Secretary Mr. Subhash Chandra
Members Dr. S.K. Jain
Prof. Anwar Ali
Dr. J.N. Som
Dr. S.K. Shrivastava
Dr. V.K. Syal
Dr. R.K. Garg

The membership fee is as follows :

Inland (Rs.)	Admission	Subscription
Fellow/Member	25/-	100/- (Annual)
Life Fellow/Member	25/-	1000/- (One time)
Associate Member	25/-	40/- (Annual)
Sustaining Member	25/-	500/- (Annual) 5000/- (One time)

Foreign (US \$)	Admission	Subscription
Honorary Fellow	Nil	Nil
Fellow/Member	10/-	50/- (Annual)
Life Fellow/Member	10/-	500/- (One time)
Sustaining Member	25/-	500/- (Annual)

Membership forms and the relevant information can be obtained from :

The General Secretary
Ultrasonics Society of India
C/o Ultrasonics Section
National Physical Laboratory
Dr. K. S. Krishnan Marg
New Delhi-110012

Journal of Pure and Applied *Ultrasonics*

Volume 27

No. 2 & 3

April-Sept., 2005

The Journal of Pure and Applied Ultrasonics is a quarterly publication of the Ultrasonics Society of India. It publishes research papers, reviews, notes on all aspects of ultrasonics.

Chief Editor
Dr. Ashok Kumar

Publication Secretary
Dr. Yudhisther Kumar Yadav

Editorial Board
Dr. T. K. Saksena
Dr. D. Klaus Beissner
Prof. Anwar Ali
Mr. A.S. Ramamoorthy

Publication Committee
Dr. J.N. Som
Ms. Reeta Gupta
Dr. Sanjay Yadav
Dr. A.K. Nain

SUBSCRIPTION

Single	Rs. 500/-	US \$ 50/-
Annual	Rs. 2000/-	US \$ 200/-
(postage paid)		

ADVERTISEMENTS

The Journal offers opportunity of wide and effective publicity for the manufacturers, suppliers of ultrasonic equipment, device and material and also for other scientific instruments and components. Tariff is as follows :

Back Cover	Rs. 2500/-	US \$ 100/-
Inside Cover	Rs. 1500/-	US \$ 75/-
Full Page	Rs. 1000/-	US \$ 50/-
Half Page	Rs. 600/-	US \$ 30/-

Discount of 20% is admissible for 4 successive insertions.

The submission of papers and all other correspondence regarding the Journal may please be addressed to :

Publication Secretary
Journal of Pure and Applied Ultrasonics
C/o Ultrasonics Section
National Physical Laboratory
Dr. K. S. Krishnan Marg
New Delhi-110012
E-mail : ykyadav@nplindia.ernet.in