



भारत सरकार  
Government of India  
जल संसाधन, नदी विकास एवं गंगा कायाकल्प मंत्रालय  
Ministry of Water Resources, RD & Ganga Rejuvenation  
केन्द्रीय जल और विद्युत अनुसंधान शाला  
Central Water & Power Research Station  
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संख्या : 380/44/2017/HMC/FLOW-O&M/

दिनांक :

**A National Workshop on “Modern techniques in flow measurement” during 06-08 February 2018 at CWPRS, Pune.**

महोदय,

The measurement of flow is essential for water auditing and hydropower generation. The measurement of flow is also required for river management purposes of water resources planning, flood control and pollution prevention. Recent technical advancement in fields namely optics, acoustics, electromagnetism have resulted not only in improved sensitive designs but also new flow measuring concepts and wireless communication. With availability of powerful PC based software, monitoring equipment, advance technology aspects of new techniques of flow measurement for close conduit as well as for open channel, it is necessary to provide comprehensive information to the user for efficient use of the technology.

Central Water and Power Research Station, Pune is organizing a three day national workshop on, “Modern techniques in flow measurement” during 06-08 February 2018 at CWPRS, Pune. The workshop is intended for practising engineers in the field of design, construction and operation, consultants working in R&D institutes, irrigation projects, river gauging stations, public sectors, private organizations and academic institutes alike. The workshop will be conducted on participative basis by experienced professional faculties. We are sure that your organisation would like to take advantage of this workshop and nominate your personnel for participation. Since the number of participants is limited, it is requested to send the nominations at the earliest, through e-mail/phone call.

The nominations for the workshop may be sent by forwarding the registration form duly filled in along with registration fee so as to reach the Coordinator / Co-coordinator by 31<sup>st</sup> January, 2018 or by a telephonic confirmation to reserve the participation. The registration fee for this workshop is Rs.4000/- only (with a concession of 50% in the registration fee for college students). The payment is to be made to A/C No. 10601001008 at RBI with IFSC Code: RBIS0MBPA04 by E-payment through Non Tax Receipt Portal (<https://bharatkosh.gov.in>). The mandate form can be downloaded from the portal after login in. The details of E-payment should invariably be informed to this office through email at [cpc.cwprs-pune@gov.in](mailto:cpc.cwprs-pune@gov.in) with a copy to [rah4uin@yahoo.co.in](mailto:rah4uin@yahoo.co.in) / [krishnaswamy\\_kumar@yahoo.co.in](mailto:krishnaswamy_kumar@yahoo.co.in). The payment can also be made through The Demand Draft in the favour of “Pay and Accounts Officer, CWPRS”, Khadakwasla, Pune, payable at State Bank of India, Pune (Branch Code-1904). You are welcome to contact the undersigned at any time.

Thanking you and looking forward to meet during the workshop.

भवदीय / Yours faithfully,

Encl: Workshop Brochure & Schedule

प. म. अब्दुल रहीमान  
वैज्ञानिक 'डी'

जलीय यांत्रिकरण और कोटरन विभाग

Contact for Enquiry: P.M.Abdul Rahiman, Sc 'D', M- 9960351426, Dr K Kumar, Sc 'C' M- 9421051680



A National Workshop on  
**“Modern Techniques in Flow Measurements”**  
 Central Water & Power Research Station, Pune 411024  
 06 -08 February 2018

<b>Day 1: Tuesday, 06.02.2018</b>			
	0930-1000	Registration	
	1000-1005	Welcome address by Shri P.M. Abdul Rahiman, Scientist 'D'	
	1005-1015	Overview of training programme by Shri T Nagendra, Scientist 'E'	
	1015-1030	Inaugural speech by Dr (Mrs) V V Bhosekar, Director, CWPRS	
	1030-1040	<b>-- High Tea --</b>	
<b>Lecture</b>	<b>Time (Hrs)</b>	<b>Topic</b>	<b>Faculty</b>
L 1	1040-1130	Flow measurements in large pipes	Shri P.M. Abdul Rahiman, Scientist D , CWPRS
L 2	1130-1215	Differential Pressure flow meters and selection for a specific duty	Shri A. R. Chavan, Ex Addl. Director, CWPRS
L 3	1215-1300	Flow measurements under adverse site conditions	Dr. K. Kumar, Sc-C, CWPRS
	1300-1400	<b>-- Lunch Break --</b>	
L 4	1400-1445	Practical aspects of Flow Measurements at site	Representative from M/s Mikamachi Inc
L 5	1445-1530	Primary Volumetric Calibration	Shri A. R. Chavan, Ex Addl. Director, CWPRS
	1530-1540	<b>-- Tea Break --</b>	
L 6	1540-1620	Winter Kennedy method of flow measurement in hydro turbine performance test	T. K. Swain, Sc- C, CWPRS
L 7	1620-1700	Measurement of flow and other parameters for prototype pump tests	M.S.R. Naidu, Sc-B, CWPRS
L 8	1700-1730	Flow measurement aspects in experimental studies	S. J. Ghule, Sc-B, CWPRS
<b>Day 2: Wednesday, 07.02.2018</b>			
L 9	0930-1020	Wireless technology in flow measurement	Representative from M/s Mechatronics Pvt Ltd, Pune
L 10	1020-1100	Uncertainty analysis in flow measurement	Shri P.M. Abdul Rahiman, Scientist D, CWPRS
	1100-1110	<b>-- Tea Break --</b>	
L 11	1110-1200	Challenges in Data Acquisition System	Prasanth Parmar , M/s Wimera Ltd
L 12	1200-1230	Flow measurement at site – Issues and Challenges	S. Ajai, Sc-B, CWPRS
L 13	1230-1300	Flow profile studies using Numerical Methods	A Jyothi Prakash & S Ajai Scientist 'B', CWPRS
	1300-1400	<b>---Lunch Break---</b>	
	1400-1730	Site Visit	S V Kulkarni, AE, CWPRS
<b>Day 3: Thursday, 08.02.2018</b>			
L 14	0930-1010	Flow measurements using Thermometric meters	Dinesh Gupta, ADR Power, New Delhi
L 15	1010-1050	Flow measurement and energy auditing	Prasanth Joshi, KBL
	1050-1100	<b>----Tea Break----</b>	
L 16	1100-1130	Flow measurement in open channel using Area Velocity method	Shri Ram Warriar, Hydro Vision, Mumbai
L 17	1130-1200	Performance of Kaplan Turbine under varied flow conditions	Dr. K. Kumar, Sc-C, CWPRS
L 18	1200-1230	Effects of piping configuration on flow measurement accuracy	K. U. Farande, ARO , CWPRS
L 19	1230-1300	In house calibration of flow measuring instruments in Gravimetric & Volumetric laboratories	T K Sahu, ARO, CWPRS
	1300-1400	<b>-- Lunch --</b>	
	1400-1530	Laboratory visit, CWPRS	D D Sarsamkar, AE, CWPRS
	1520-1530	<b>-- High Tea Break --</b>	
	1530-1630	Feedback \ Valedictory Function	

Venue: HMC lecture hall, CWPRS