भारत सरकार
Government of India
केन्द्रीय जल आयोग
CENTRAL WATER COMMISSION
प्रशिक्षण निदेशालय
Training Directorate

No. 5/ 03/2018-Trg/ 194-294 **Dt.** 19 **.01.2018**

विषय: **A National Workshop on "Modern Techniques in Flow Measurement" at CWPRS, Pune during 6-8 February, 2018 reg.**

Please find enclosed herewith a copy of the letter/ brochure on the above subject. It is requested that nominations if any, may be forwarded to this office with the approval of the Concerned Member/ Chief Engineer (HRM) in respect of HRM Unit/ Chief Engineer, NWA, CWC, Pune in respect of NWA Unit positively by **23.01.2018.** A copy of the Bio data of the nominated officers may also be enclosed along with the nominations indicating the number of events so far attended by them.

It is for information that nominations received after the stipulated date will not be considered and also nominations once approved by Chairman, CWC, will not be allowed to be withdrawn.

संलग्नक : यथोक्त

19/01/2018
(रमेश कुमार)
निदेशक (प्रशि0)

1. PPS to Chairman, CWC, New Delhi.
2. PPS to Member D&R/RM/WP&P, CWC, New Delhi.
3. All Chief Engineers, Central Water Commission.
4. Director, D&RC, RMCD, WP&PC CWC, New Delhi.
5. Secretary/ Director (TC), CWC, New Delhi.
6. All Directors/ Superintending Engineers, Central Water Commission.
7. J.E.(Trg), CWC, New Delhi to upload this circular on CWC website www.cwc.nic.in/intranet portal.

Room No. 004, Ground Floor, CWC, New library Building,, R.K. Puram, New Delhi 110 066
Telephone No. 91-11-29583505, e-mail : trngdte@nic.in

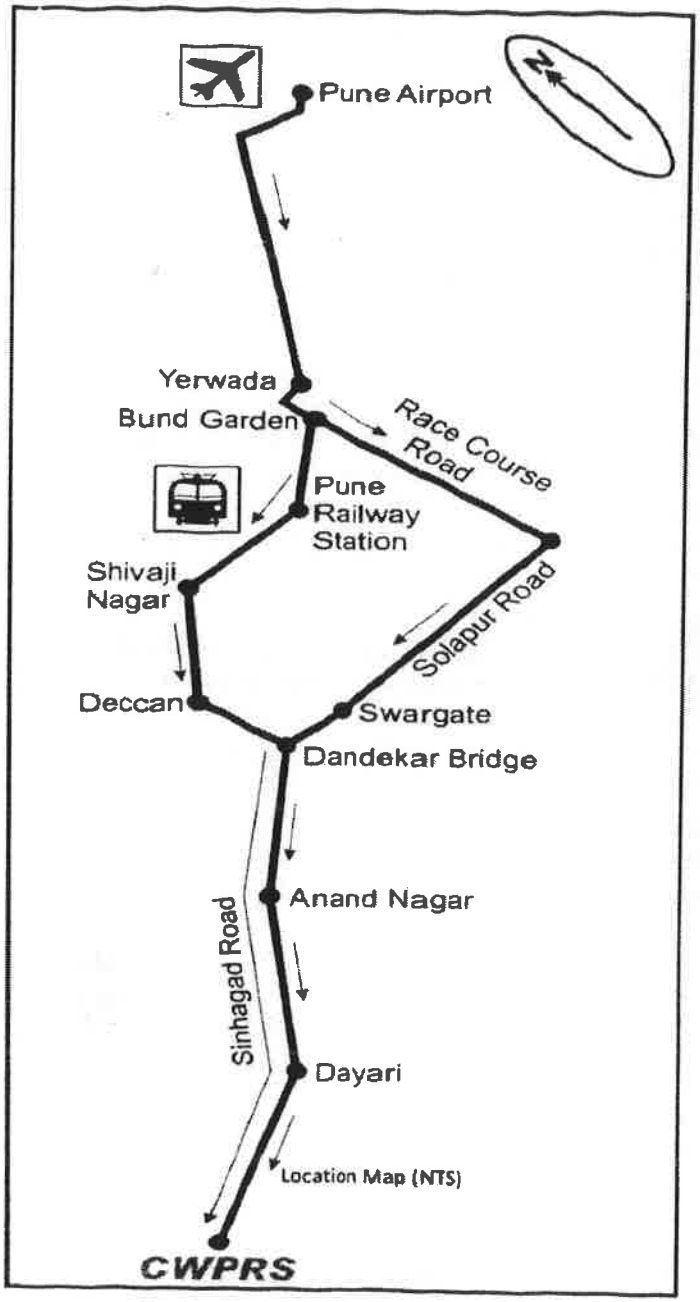
Modern Techniques in Flow Measurement

About CWPRS

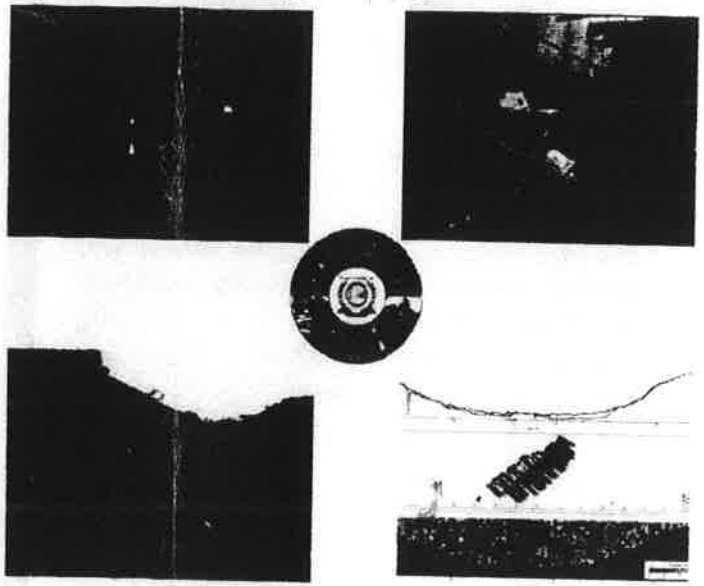
al Water and Power Research Station
'RS), Pune as it is known today was
ished in 1916 is a premier National Institute
ng a wide range of R&D services related to
ulics and allied areas for providing research
; for the design and development of projects
ter resources, river engineering, port sector
oastal developments. Today, CWPRS is a
-disciplinary research organization with no
els in India, in the service to the nation
gh research for more than 100years. The
ties of CWPRS encompass the studies
taken in the following seven major
ılines:

ver Engineering
ver and Reservoir System Modeling
:servoir and Appurtenant Structures
)astal and Offshore Engineering
undation and Structures
)plied Earth Sciences
/draulic Machinery & Cavitation (HMC)

division has been involved in performance
ation of hydro electric power plants (HEP),
ersible pumps. It has also undertaken site
g of large VT pumps, such as for TATA,
DC Maharashtra. It has helped various
factures to develop new products. The
ical services include standardisation of flow
urement systems as done to KBJNL,
ılco, Usha Martin, Delhi Jal Board, NTPC,
C, NTPS, SBEM and Municipal
)rations of Mumbai, KDMC, Pune, Nagpur
o on. CWPRS houses the countries largest
netric calibration lab (2 m^3/s capacity), and
modernization under NHP III.



A National Workshop
on
Modern Techniques in Flow Measurement
February 6 - 8, 2018



Organized by

Central Water and Power Research Station
Pune, India

Dr. (Mrs.) V. V. Bhosekar
Director

Objectives

The workshop is to provide a platform to bring together Engineers, Scientists, Industries and Research personnel working in various aspects of flow measurement and related inter disciplines. The workshop will focus on measurement aspects of close conduit and open channel flow along with technical deliberation on structural, economical and management aspects.

workshop Contents

The workshop consists of lectures by Expert Professional from product manufacturers and Central Water & Power Research Station (CWPRS) and working professionals. The lecture would cover theory and will be discussed with typical case studies and demonstrate flow measurement in open channel, close conduit and physical hydraulic Models. Training workshop covers the following topics:

- Flow measurement techniques
- Acoustics flow measurement
- Automated integrated gates and filters
- Automation and DAS
- Flow measurement in hydraulic models
- Hydrometry and data processing
- Instrumentation for flow measurement

Participation

The proposed workshop is expected to be useful and of interest to the practicing engineers, research scientists, consultants and academicians involved in studies related to flow measurement in closed conduits, rivers and canals.

Venue and Date

The workshop will be held between 0930 and 1730 hours during February 6-8, 2018 at Central Water and Power Research Station (CWPRS), Khadakwasla, Pune-411024

Registration

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 cpe.cwprs-pune@gov.in with a copy to rah4uin@yahoo.co.in/krishnaswamy_kumar@yahoo.co.in. The payment can also be made through The Demand Draft in the favor of "Pay and Accounts Officer, CWPRS", Khadakwasla, Pune, payable at State Bank of India, Pune (Branch Code-1904). Working lunch and light refreshments would be provided during the workshop.

Accommodation

Accommodation at nominal cost will be provided at CWPRS guest house on first come first served basis. The participants are requested to arrange own transport facility from Airport/Railway station/Bus stand to CWPRS.

Convener
Shri T Nagendra, Scientist 'E'
Phone : 020 – 24103414

Coordinator
Shri P.M.Abdul Rahiman, Scientist 'D'
Phone : 9960351426
Email : rah4uin@yahoo.co.in

Co-Coordinator
Dr K Kumar, Scientist 'C'
Phone : 9421051680/ 020-24103335
Email : krishnaswamy_kumar@yahoo.co.in

Fax : 020 – 24381004, Web :www.cwprs.gov.in

A National workshop
on

Modern Techniques in Flow Measurement

February 6 – 8, 2018

Registration Form

Name : _____

Designation : _____

Organization : _____

Mailing Address : _____

_____

Tel : Off_____ Res_____

Fax : _____

E-mail : _____

Enclosed please find DD. No./E-payment receipt No_____Dated_____ for Rs._____ drawn on _____ towards registration fee.

Signature

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

Lecture	Time (Hrs)	Topic	Faculty
		Day 1: Tuesday, 06.02.2018	
	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	**– High Tea –**	
L 1	1040-1130	Flow measurements in large pipes	Shri P.M. Abdul Rahiman, Scientist D , CWPRS
L 2	1130-1215	Conventional methods for flow measurements	Shri A. R. Chavan, Ex Addl. Director, CWPRS
L3	1215-1300	Flow measurements under adverse site conditions	Dr.K.Kumar,Sc-C, CWPRS
	1300-1400	**-- Lunch Break --**	
L 4	1400-1445	Practical aspects of Flow Measurements at site	Representative from M/s Mikamachi Inc
L5	1445-1530	Winter Kennedy method of flow measurement in hydro turbine performance test	T. K. Swain, Sc- C, CWPRS
	1530-1540	**– Tea Break –**	
L 6	1540-1630	Measurement of flow and other parameters for prototype pump tests	M.S.R.Naidu, Sc-B,CWPRS
L7	1630-1730	Flow measurement aspects in experimental studies	S. J. Ghule, Sc-B, CWPRS
		Day 2: Wednesday, 07.02.2018	
L 8	0930-1020	Wireless technology in flow measurement	Representative from M/s Endress+Hauser India Pvt. Ltd.
L 9	1020-1100	Uncertainty analysis and traceability aspects	Shri P.M. Abdul Rahiman, Scientist D, CWPRS
	1100-1110	**-- Tea Break –**	
L10	1110-1200	Data Acquisition System	Prasanth Parmar , M/s Wimera Ltd
L11	1200-1230	Flow measurement at site – Issues and Challenges	S. Ajai, Sc-B, CWPRS
L12	1230-1300	Flow profile studies using Numerical Methods	A Jyothi Prakash & S Ajai Scientist 'B', CWPRS
	1300-1400	**---Lunch Break--**	
	1400-1730	Site Visit	S V Kulkarni, AE, CWPRS
		Day 3: Thursday, 06-04-2017	
L13	0930-1010	Flow measurements using Thermometric meters	Dinesh Gupta, ADR Power, New Delhi
L14	1010-1050	Flow measurement and energy auditing	Prasanth Joshi, KBL
	1050-1100	**----Tea Break----**	
L15	1100-1130	Suitable Flow Measurement devices for Pumps & Turbines	Shri Ram Warrier, Hydro Vision, Mumbai
L16	1130-1200	Performance of Kaplan Turbine under varied flow conditions	Dr.K.Kumar, Sc-C, CWPRS
L17	1200-1230	Effects of piping configuration on flow measurement accuracy	K. U. Farande, ARO , CWPRS
L18	1230-1300	In house calibration of flow measuring instruments in gravimetric & volumetric laboratories	T K Sahu, ARO, CWPRS
	1300-1400	**-- Lunch --**	
	1400-1530	Laboratory visit, CWPRS	D D Sarsamkar, AE, CWPRS
	1520-1530	**– High Tea Break –**	
	1530-1630	Feedback \ Valedictory Function	

Venue: HMC lecture hall, CWPRS