

## Publications

- **P. R. Maiti**, Medha Jha and Sabita Madhvi Singh (2012) “Comparative analysis of performance of neural network and neuro-fuzzy model in prediction of ground water table fluctuation” International Journal of Hydrology Science and Technology, Vol.-2, No-3
- Abhishek Verma and **P. R. Maiti** (2012) Push over analysis of un-stiffened steel plate shear wall, International Journal of Engineering Research and Development, vol-1, pp-41-49.
- Rohit Saha and **P. R. Maiti** (2012) Buckling of Simply Supported FGM Plates under Uniaxial Load, International Journal of Civil and Structural Engineering, Vol-2, Issue 4, pp-1035-1050.
- Vikash Khatri, **P. R. Maiti**, P. K. Singh & Ansuman Kar (2012) Analysis of Skew Bridges using Computational Methods, International Journal of Computational Engineering Research, Vol-2, Issue No-3, pp-628-636.
- Sabita Madhvi Singh and **P. R. Maiti** (2012) Local Scouring around a Circular Pier in Open Channel, International Journal of Emerging Technology and Advanced Engineering, Vol-2, Issue 5, pp-454-458
- Sabita Madhvi Singh, K Narayan, **P. R. Maiti** & Vigya Singh (2012) “Influence of climate change on crop yield: A case study” International Journal of Civil, Structural, Environmental and Infrastructure Engineering Research and Development, Vol-2, Issue-1, pp 57-72
- Sabita Madhvi Singh, **P. R. Maiti** & Sanwita Shaiwalini (2012) “ Statistical Modeling of Climate Parameter”, Asian Journal of Current Engineering and Math, Vol-1, No-2 pp. 29-33
- R. Saha & **P. R. Maiti** (2009) “Influence of Multilayer vdW Interaction on Torsional Buckling of Multi-walled Carbon Nano-tube under Thermal Fields”, Journal of Reinforced Plastics & Composites , Vol. 28, No-24, pp-3009-3020
- **P. R. Maiti**, R Saha & S W Alisjahbana (2008) “Response of plate on elastic foundation under harmonic moving load” The Icfai University Journal of Structural Engineering, Vol-1, No-1, pp-60-75
- **P. R. Maiti** (2004) Hydrodynamic response of liquid filled oscillating rectangular tank” Annual journal 2003-2004, CES, IIT Kharagpur
- Ansuman Kar, Vikash Khatri, **P. R. Maiti**, P. K. Singh “ Study on effect of skew angles in skew bridges”, International Journal of Engineering Research and Development, Vol-2, issue 12, pp-13-18 2012.
- Serajuddin Ahmed and **P. R. Maiti** “Analysis of lattice steel towers using Staad Pro”, International Journal of Applied Engineering Research, Vol-7, No-10, pp. 1123-1130, 2012.

- Sabita Madhvi Singh and **P. R. Maiti**, 2012, “Prediction of average annual discharge in a river, a neural network approach” International Journal of Civil Engineering, Vol-1, Issue-1, pp-67-78.

### International Conference

- Sabita Madhvi Singh & **P. R. Maiti** (2012) Flow Characteristics around a circular bluff body, International Conference on Emerging Trends in Engineering and Technology, 6-7 April, 2012, College of Engineering, Teerthankar Mahaveer University, Moradabad. ISBN 978-93-8137804-5
- **P. R. Maiti** “Hydrodynamic pressure in liquid filled container” 2<sup>nd</sup> International conference on methods and models in science and technology (ICM2ST-11), American Institute of Physics Conference Proceedings 1414, pp. 206-210, doi: 10.1063/1.3669957. ISBN 978-0-7354-0991-0; ISSN 0094-243X, 2011
- Sabita Madhvi Singh & **P. R. Maiti** “Forecasting of hydro meteorological parameters by time series analysis: A case study at Mirzapur, India. An International perspective on Environmental and water resources, January 5-7, 2009, Bangkok, Thailand
- R. Saha & **P. R. Maiti** “Vibration characteristics of axially loaded rotating functionally graded cylindrical shell” 49<sup>th</sup> AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials, 7-10 April 2008, Schaumburg, IL
- **P. R. Maiti** & R.Saha “Free vibration of liquid in cylindrical container” 8<sup>th</sup> International Conference on Vibration Problems (ICOVP-2007) , 30 January -3 February ,2007 Bengal Engineering and Science University, Shibpur, Howrah, India
- R. Saha & **P. R. Maiti**, “Flow Forecasting of Godavari River: A Radial Basis Function Neural Network Approach” International conference on Civil Engineering in the New Millennium: opportunities and challenges (CENeM-2007), 11-14 January, Bengal Engineering and Science University, Shibpur, Howrah
- **P. R. Maiti** ,S. K. Bhattacharyya & S. Majumdar (2006) ,“Dynamic analysis of a liquid storage tank under sinusoidal base excitation” “Wind and earthquake Engineering Proceedings of The Tenth East Asia-Pacific Conference on structural Engineering & Construction (EASEC-10) August 3-5, 2006 , Bangkok, Thailand, pp-109-114
- **P. R. Maiti** & R.Saha, (2006), Dynamic behavior of plates on elastic foundation under harmonic moving load, Analytical and Computational methods, Proceedings of The Tenth East Asia-Pacific Conference on structural Engineering & Construction (EASEC-10) August 3-5, 2006, Bangkok, Thailand, pp 95-100.

- R. Saha & **P. R. Maiti** “Analysis of ground water table fluctuations and recharge estimates” An International perspective on Environmental and water Resources, 18-20 December, EWRI of ASCE, India-2006
- **P. R. Maiti** & S. K. Bhattacharyya (2006) “Sloshing response in a container under base excitation” International conference on Civil Engineering in the New Millennium: opportunities and challenges (CENeM-2007),11-14 January, Bengal Engineering and Science University, Shibpur, Howrah
- **P. R. Maiti** & S. K. Bhattacharyya (2006), “Finite element analysis of contained fluid subjected to external excitation”, International Congress on Computational Mechanics and Simulation, ICCMS-06, Indian Institute of Technology, Guwahati.
- **P. R. Maiti** & A. Godara “ Dynamic response of finite plate resting on elastic foundation under moving loads” , 5<sup>th</sup> International conference on Road & Airfield Pavement Technology, (ICPT 2005), Korea
- A. Godara & **P. R. Maiti**, “Rigid pavement behavior under moving load” A finite element modeling using MATLAB”, International Conference on Computation & Engineering Science (ICCES-05)

#### **National Conference/ Workshop**

- **P. R. Maiti**, Analysis of Confined Brick Masonry Buildings, Proceedings of the Workshop Recent Developments in Design and Constructions Technique of Brick Masonry Buildings, 3-4 March 2012, Department of Civil Engineering, IT BHU, pp-125-152.
- **P R Maiti** & Abhinav Srivastava, “Time period analysis of liquid filled cylindrical container during sloshing” Proceedings of Recent Advances in Civil Engineering, RACE-2011, pp-343-348.
- Vikash khatri, P. K. Singh & **P. R. Maiti**, “Comparative behaviour of two story brick masonry building models of confined, unconfined model as per code” Proceedings of Recent Advances in Civil Engineering, RACE-2011, pp-602-609.
- **P. R. Maiti**, Earthquake Resistant Design of Brick Masonry Buildings, Proceedings of the Workshop on Earthquake Resistant Design and Construction of Confined Brick masonry Buildings, 13-14 February 2010, Department of Civil Engineering, IT BHU, pp-87-108.
- M .Mallik, **P. R. Maiti** & A Ohri, “ Parameters of watershed and GIS models”, National conference on Civil Engineering –Trends, Issues and Challenges (CETIC), 11-12 March, 2006, Department of Civil Engineering, M.S. University , Baroda and UGC, New Delhi.

- M. Mallik, R Saha & **P. R. Maiti** on "Predication of SO<sub>2</sub> in atmosphere using Artificial Neural Network" , All India Seminar on Air Pollution & Health Impacts(AISAPHI), 23- 24 Feb 2006, organized by The Institution of Engineers, IIT Roorkee.
- **P. R. Maiti**, (2006) “ Response of liquid filled tank under base excitation”, Proceedings all India seminar on Earthquake resistant design, construction, retrofitting and rehabilitation of buildings, February 18-19, 2006, Department of Civil Engineering, Institute of Technology, Banaras Hindu University.
- A. N. Sinha, A. ohri, M. Jha & **P. R. Maiti**, “Disaster mitigation, Management and capacity building strategies” National conference on Earthquake disaster: Technology and management, EARTH-06, 11-12 February, 2006, MNNIT Allahabad.
- M Mallik, **P. R. Maiti**& A Ohri , “Application of GIS in watershed management” Conference on Application of remote sensing & GIS in resource management. B.I.E.T Jhansi, Bundelkhand University. 2006
- **P. R. Maiti**& J. Singh, ‘Estimation of ground water recharge using time series analysis” National workshop on Water conservation (WATCON-2006) with special emphasis on recycling and reuse , March 25, 2006, Department of Civil Engineering, Institute of Technology, Banaras Hindu University.
- **P. R. Maiti**& J Singh “ Hydrodynamic pressure on a water retaining structure” ICI Proceedings of the concrete day celebration Varanasi, 2005, Institute of Technology, Banaras Hindu university, pp- 89-97.
- **P. R. Maiti**& S. Ghosh “Dynamic response of plate on elastic foundation under moving loads” Emerging Trends in structural Mechanics and Composites, ETSMC-2003, pp-34-41 NIT Rourkela.

#### **Book/ Proceedings edited**

- P. K. Singh & **P R Maiti**, Proceedings of the workshop on “Earthquake Resistant Design and Construction of Confined Brick Masonry Buildings” (WERDCCBMB) 13-14 February, 2010
- B. Kumar & **P R Maiti**, E-Proceedings: PRAGATI, Proceedings of All India Biennial Civil Engineering Conference on Advances in Civil Engineering, 1-3 April, 2011
- P. K. Singh & **P R Maiti**, Proceedings of the Workshop on Recent Developments in Design and Construction Techniques of Brick Masonry Buildings, 3-4 March 2012. ISBN: 978-81-921121-1-4

## **Supervisor M. Tech. / Ph. D. thesis:**

### **M. Tech.:**

- Serajuddin Ahmed (2012) Analysis of Steel Lattice Towers, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Saurav (2012) Finite Element Analysis of Confined Brick Masonry, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Birajdar Harshad Subashrao (2012) Finite Element analysis of Box Culverts with and without Haunches, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Ram Ganga Bhagaban (2012) Finite Element analysis of beam and plate under harmonic loading, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Samay Singh (2012) Analysis of RC beam using Glass fibre Polymer Composite ( GFRP), Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Abhishek Verma (2012) Push over analysis of steel plate shear wall, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Ishan Sharma (2011) Numerical Analysis of Composite Laminates, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Abhinav Srivastava (2011) Study of Sloshing and Hydrodynamic Pressure in Cylindrical Tank, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Parikshit Verma (2011) Analysis of Confined Brick masonry using ANSYS, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Pankaj Kumar (2011) Study of sloshing in rectangular water tank under base excitation, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Ansuman Kar (2011) Analysis of skew bridges using computational methods, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Pankaj Choudhary (2011) Analysis of frame-structure building under blast load, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Vinayak Ashok Desai (2010) Pushover Analysis of RCC Framed Buildings, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Dushyant Pratap (2010) Free Vibration Analysis of Composite Laminate Plate, Department of Civil Engineering, Institute of Technology, Banaras Hindu University

- Vikash Ranjan (2010) Dynamic Modeling of Runoff Sediment Yield for Kashinagar Watershed, Department of Farm Engineering, Institute of Agricultural Science, Banaras Hindu University
- Vigya Singh (2010) To study the climatic variability of Varanasi District U. P. India, Department of Farm Engineering, Institute of Agricultural Science, Banaras Hindu University
- Amit Kumar Pandey (2009) Study on Local Scouring around Cylindrical Pier Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Avneesh Singh (2008) Flow around circular and square cylinder and its dynamic response at different Reynolds number, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Rathin Sinha (2008) Integrated crop water management using remote sensing and GIS. Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Gaurav Verma (2008) Impact assessment of new bridge on Ramnagar fort and the Ganga in Varanasi. Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- Akash K. Badal (2007) Study of scouring around a bluff body in a stream flow, Department of Civil Engineering, Institute of Technology, Banaras Hindu University.
- Sabita Madahav (2007) Statistical analysis of hydrological process in a watershed: A case Study at Mirzapur, Department of Soil, Water, Land Engineering & Management, Allahabad Agricultural Institute, Deemed University, Allahabad-211007, India
- Mallik Mritunjay R B (2006) Application of remote sensing, GIS and optimization technique in watershed management, Department of Civil Engineering, Institute of Technology, Banaras Hindu University

#### **Ph. D. supervisor**

- Sabita Madhvi Singh, Fluid flow behavior around structural obstructions (on going)
- Vikash Khatri “Steel composite bridge” (on going)

### Workshop /Seminar /Conference attended

- QIP AICTE Sponsored Short-Term course on Hydroelectric Power Development , IIT Guwahati, Centre for Energy, 5-9 December 2011
- 2<sup>nd</sup> International conference on methods and models in science and technology (ICM2ST-11), Jaipur, Rajasthan, India, 19-20 November 2011 (**Best paper award**)
- National conference on Recent Advances in Civil Engineering, RACE-2011, Department of Civil Engineering, IT- BHU, 14-16 October 2011
- 6<sup>th</sup> All India Student's Conference on Science and Spiritual Quest, 12-14 March, 2011, Delhi Technical University, Delhi
- Faculty Improvement Programme, 14-15 February 2011, UGC Academic Staff College in collaboration with SMST, IT BHU Varanasi
- BHU Alumni Meet 2010 (BHUAM 2010) and seminar on Higher education and sustainable development: emerging challenges and Mahamana's vision, 24-25 December, 2010
- National Workshop on Advances in Water Proofing Materials and Techniques, NITTTR Chandigarh, 22-23 September, 2010
- 5<sup>th</sup> All India Student's Conference on Science and Spiritual Quest, 15-17 January, 2010, MNNIT Allahabad
- International conferences on Issues and Challenges in supply chain management, 28-30 March 2008, held at Department of Mechanical Engineering, IT BHU, Varanasi
- International conference, CENeM-2007, Civil Engineering in the New Millennium Opportunities and challenges, held at Bengal Engineering and Science University, Shibpur, West Bengal, 11-14 January, 2007
- International conference, EASEC -10, The tenth east Asia-Pacific conference on structural engineering & construction, held at **Bangkok, Thailand**, 3-5 August 2006 (Inaugurated by Prime Minister of Thailand)
- All India seminar on Earthquake resistant design, construction, retrofitting and rehabilitation of buildings, February 18-19, 2006, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
- 11<sup>th</sup> National water convention, held at New Delhi, organized by National Water Development Agency (NWDA), 11 May, 2005 (Inaugurated by **Dr. A. P. J. Abdul Kalam**, President of India)

- Workshop on Integrating watershed technologies with traditional approaches of watershed management for eastern & north eastern region contributions of NRDMS division of DST held at Jadavpur University Campus, Kolkata, 28-30 December, 2004
- All India seminar on Emerging Trends in structural Mechanics and composites, ETSMC-2003, held at National Institute of Technology, Rourkela, 1<sup>st</sup> -2<sup>nd</sup> November, 2003
- Attended short term courses on Soft computing tool in Civil Engineering, November 10-16, 2003 held at IIT Kharagpur, Department of Civil Engineering

### Professional Members

- Life Member - Indian Society for Technical Education (ISTE)
- Life Member - Indian Society of Earthquake Technology (ISET), Roorkee
- Life Member -Indian Society of Theoretical and Applied Mechanics (ISTAM), IIT Kharagpur
- Life Member –Indian Concrete Institute (ICI), India
- Associate Member, Institute of Engineers (India), AMIE
- Member, Institution of Civil Engineers (India), ICE (I)
- Member - International Association of Engineers (IAEng)
- Associate with Bhaktivedanta Institute, Kolkata (Promoting the Synthesis of Science and Spirituality)

### Awards

- *Shiksha Rattan Puraskar*, Certificate of Excellence for Meritorious Services, Outstanding Performance and Remarkable Role on 21<sup>st</sup> January, 2011, by India International Friendship Society.
- *Best Citizens of India award 2011*, by International Publishing House.
- Awarded National Scholarship for Talented Children (Rural areas Class VIII), Govt. of West Bengal
- Achieved Grade “A” in science Talent search Test for class-X, conducted by national Science society, affiliated to Indian science Congress Association.



## **Educational Administration**

- Deputy Coordinator, (Project) SAP-DRS-Phase-II, Department of Civil Engineering, BHU (Funding agency UGC, New Delhi)
- Administrative Warden , Morvi Hostel, IIT (BHU)
- Organizing Secretary, Workshop on Recent Developments in Design and Constructions Techniques of Brick Masonry Buildings, 3-4 March 2012, Department of Civil Engineering, IT BHU
- Co-Convener, NIRMAAN -11, The Biennial Civil Engineering Festival of Civil Engineering Society, Department of Civil Engineering , IT BHU, 2011
- Co-Convener, Workshop on Earthquake Resistant Design and Construction of Confined Brick Masonry Buildings, 13-14 February, 2010.
- Secretary General and Treasurer, Civil Engineering Society, Department of Civil Engineering (Session 2009-10 and 2010-2011, 2011-12)
- Warden, Morvi Hostel (August 2009-July 2010), IT BHU
- Warden, Vishveshvaryya Hostel (July 2010 to July 2012), IT-BHU
- Teacher In-charge, Industrial Tour Program (B-Tech and IDD M-Tech, Part-III) (Session 2007-2008 ,2009-2010 and 2010-2011)
- Teacher In-charge: To facilitate the participation in Spring Festival held at IIT- Kharagpur during 25<sup>th</sup> -28<sup>th</sup> January, 2007, accompanying 54 numbers of IT- BHU students “Cultural Wing of IT Gymkhana”

## **Teaching Experience:**

- Lecturer, Hydraulics & Water Resources Engineering section, Department of Civil Engineering, IT-BHU (June 2004-July 2009)
- Assistant Professor, Structural Engineering Division, Department of Civil Engineering, IT-BHU (July 2009-till date)
- Course Instructor (Water Resource Management) M-Tech curriculum in Farm Engineering, Institute of Agricultural Science, BHU in the session 2008-09 and 2009-10

### **Consultancy / Field Project Completed**

- Inspection report of sustainability of Over Head Tank (Capacity 350 kilo liter) on Pathana Drinking water scheme and Badlapur Drinking water Scheme, Janpur, U.P. Jananigam, 2010
- Process Design & Hydraulic Diagram for 29 MLD Sewage treatments Plant at SaloriNala, Allahabad, Uttar Pradesh, 2007
- Design and Development of detailed Report for Rejuvenation of Lehartara Pond, Varanasi, Uttar Pradesh, Coco Cola India Pvt Ltd , 2007
- Riprap bank protection work in river Ganga at Mirjapur, Irrigation Department, Government of Uttar Pradesh, 2006
- A Report of the Inspection of Partly Constructed PuccaGhat on the Bank of Ganga River at Ramnagar, Varanasi, India, December 2006

### **Research Project**

- Earthquake Resistant 4-Storey Confined Brick Masonry Apartment Type Building Design and Construction (UGC Sponsored)