

# VETOMAC-X 2014

## 10<sup>th</sup> International Conference on Vibration Engineering & Technology of Machinery

September 9-11, 2014

University of Manchester, UK

### Call for papers

VETOMAC-X is 10<sup>th</sup> in a series of conferences being held in an effort to bring together researchers and engineers working in field of vibration. In particular, the conference aims to provide researchers a platform for sharing their innovative and creative research findings aimed to benefit the Engineering and Technology of Machinery. The prestigious conference will be organized by the University of Manchester, UK in collaboration with the Vibration Institute of India.

Major Topics includes (but not limited to)

- **Aeroelasticity**
- **Condition Monitoring (all kinds of machines, bearings, gear boxes, etc.)**
- **Damping Models**
- **Experimental Techniques**
- **Finite Element Model Updating**
- **Fluid Structure Interaction**
- **Industrial Case studies**
- **Instability Problems in Rotors and Structures**
- **Machinery and Structural Dynamics**
- **Modal Analysis**

- **Non-linear Vibrations**
- **Random Vibrations**
- **Reliability study in Vibration problems**
- **Rotor Dynamics**
- **Sensor & Instrumentation**
- **Signal Processing**
- **Smart Structures**
- **System Identification**
- **Vehicle Dynamics**
- **Vibration Control**
- **Vibration study in Energy and Power Systems**
- **Vibration study in Human-Structure, Bioengineering**
- **Wave Propagation**

### Conference Chairs

**Dr Jyoti K. Sinha**

The University of Manchester, UK

**Prof. J.S. Rao** (Retired from IIT Delhi, India)

President-Academics, Kumaraguru College of Technology, India

President, The Vibration Institute of India

Chief Editor, Advances in Vibration Engineering

Chief Science Officer (consulting)

Altair Engineering (India)

### Scientific Committee

Prof. Jamil Abdo, Sultan Qaboos University, Oman

Prof. Douglas E Adams, Vanderbilt University, USA

Prof. S. Adhikari, Swansea University, UK

Prof. A. Ball, University of Huddersfield, UK

Prof. W. Bartelmus, Wroclaw University of Technology, Poland

Prof. Rama Bhat, Concordia University, Canada

Dr. Philip Bonello, The University of Manchester, UK

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Prof. A.K. Darpe, Indian Institute of Technology Delhi, India

Prof. R. Dufour, INSA-Lyon, France

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Prof. M.I. Friswell, Swansea University, UK

Dr. F. Gu, University of Huddersfield, UK

Prof. K. Gupta, Indian Institute of Technology Delhi, India

Prof. Eric Hahn, The University of New South Wales, Australia

Mr. Wolfgang Hahn, EDF, UK

Prof. Haiyan Hu, Beijing Institute of Technology, China

Prof. S. Ilanko, University of Waikato, New Zealand

Dr. Tianjian Ji, The University of Manchester, UK

Prof. Dani Juricic, Jozef Stefan Institute, Slovenia

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Prof. Shunming Li, Nanjing University of Aeronautics and Astronautics, China

Prof. C.W. Lim, City University of Hong Kong, China

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Dr. P. Mandal, The University of Manchester, UK

Prof. D. Mba, Cranfield University, UK

Prof. Guang Meng, Shanghai Jiao Tong University, China

Prof. A. R. Mohanty, Indian Institute of Technology Kharagpur, India

Prof. R.I.K. Moorthy, Pillai Institute of Information Technology, Engineering, Media Studies and Research, India

Prof. John Mottershead, University of Liverpool, UK

Prof. P.M. Mujumdar, Indian Institute of Technology Bombay, India

Prof. Asoke K. Nandi, Brunel University, UK

Prof. C. Nataraj, Villanova University, USA

Prof. Huajiang Ouyang, University of Liverpool, UK

Dr. S.O. Oyadiji, The University of Manchester, UK

Prof. C.A. Papadopoulos, University of Patras, Greece

Prof. Z.K. Peng, Shanghai Jiao Tong University, China

Prof. Paolo Pennacchi, Politecnico di Milano, Italy

Dr. E. Petrov, University of Sussex, UK

Prof. R.B. Randall, The University of New South Wales, Australia

Prof. R. Rzadkowski, Polish Academy of Sciences, Poland

Prof. Mark J. Schulz, University of Cincinnati, USA

Prof. A.S. Sekhar, Indian Institute of Technology Madras, India

Prof. Kihong Shin, Aandong National University, South Korea

Prof. Alok Sinha, Pennsylvania State University, USA

Prof. Andrew Starr, Cranfield University, UK

Prof. R. Tiwari, Indian Institute of Technology Guwahati, India

Prof. V. Volkovas, Kaunas University of Technology, Lithuania  
 Prof. N. S. Vyas, Indian Institute of Technology Kanpur, India  
 Dr. Y.P. Xiong, University of Southampton, UK  
 Prof., Dr. Sc. Jaroslav Zapomel, VSB-Technical University of Ostrava, Czech Republic  
 Prof. R. Zimroz, Wroclaw University of Technology, Poland

## History of VETOMAC series of Conferences: (in collaboration with the Vibration Institute of India)

- **VETOMAC I, 2000:** Indian Institute of Science, Bangalore, India.
- **VETOMAC II, 2002:** Bhabha Atomic Research Centre, Mumbai, India.
- **VETOMAC III, 2004:** Indian Institute of Technology, Kanpur, India.
- **VETOMAC IV, 2006:** University College of Engineering, Osmania University, Hyderabad, India, Bharat Heavy Electricals Limited, Hyderabad, India.
- **VETOMAC V, 2009:** Huazhong University of Science and Technology, Wuhan, China and City University of Hong Kong, China.
- **VETOMAC VI, 2010:** Indian Institute of Technology, New Delhi, India.
- **VETOMAC VII, 2011:** Shanghai Jiao Tong University and City University of Hong Kong, China.
- **VETOMAC VIII, 2012:** Institute of Fluid Flow Machinery, Polish Academy of Sciences, Gdansk, Poland.
- **VETOMAC IX, 2013:** Nanjing University of Aeronautics and Astronautics, Nanjing, China.

## Key Dates:

	Submission date	Acceptance/ Revision Notification date
Abstract	10 <sup>th</sup> Jan 2014	17 <sup>th</sup> Jan 2014
Full Paper	17 <sup>th</sup> Feb 2014	17 <sup>th</sup> March 2014
Revised Paper	7 <sup>th</sup> April 2014	14 <sup>th</sup> April 2014

**NOTE: Accepted papers based on peer review by Scientific Committee and full fee paid by 30<sup>th</sup> April 2014 will only be included in the hard copy of proceedings (Springer Publication).**

## Conference Venue:

**Manchester Conference Centre (Days Hotel)**  
**Sackville Street, Manchester M1 3BB, UK**

**Telephone:** +44 (0)161 955 8000  
**Email:** [conference@days-mcc.co.uk](mailto:conference@days-mcc.co.uk)

<http://www.manchesterconferencecentre.co.uk/>

## Travel Information:

<http://www.manchesterconferencecentre.co.uk/location>

## Accommodation near Conference Venue:

- (i) Conference Venue itself
  - (ii) IBIS Hotel, Manchester M1 7DG, [www.ibishotel.com](http://www.ibishotel.com)
  - (iii) Holiday Inn Express, Manchester M1 5QA  
[www.hiemanchester.co.uk](http://www.hiemanchester.co.uk)
- More option- See the conference website.

## Registration:

(Soon it will be updated)

## Conference Contact:

**Dr. Jyoti K. Sinha**

School of Mechanical, Aerospace and Civil Engineering  
 The University of Manchester, Manchester M13 9PL, UK

[VETOMACX@Manchester.ac.uk](mailto:VETOMACX@Manchester.ac.uk)  
[Jyoti.Sinha@Manchester.ac.uk](mailto:Jyoti.Sinha@Manchester.ac.uk)

Phone: +44 (161) 3064639

Conference website: (under construction)  
[www.mace.manchester.ac.uk/.....](http://www.mace.manchester.ac.uk/.....)

## About Manchester

Manchester is a truly multicultural city with a variety of cultures, traditions and ethnicities living together. Manchester's urbanisation was brought on by a boom in textile manufacture during the industrial revolution in early 19<sup>th</sup> century and resulted in it becoming the world's first industrialised city. Manchester is just an hour away from the beautiful Lake District, and the UK capital city of London is just two hours away by train. There are direct flights from Manchester International Airport to all major European cities, and many long-haul flights are also available from Manchester.

## Attractions

- **John Rylands Library**, <http://www.library.manchester.ac.uk/rylands/>
- **Imperial War Museum North**, <http://www.iwm.org.uk/>
- **Chill Factore**, <http://www.chillfactore.com/>
- **Ship Canal Cruises**,  
<http://www.merseyferries.co.uk/content/Cruises/ManchesterShipCanalCruises.aspx>
- **Trafford Shopping Centre**



## Sport

- **Manchester United FC**, <http://www.manutd.com/>
- **Manchester City FC**, <http://www.mccf.co.uk/>

## Food

There are plenty of international restaurants (Thai, Chinese, Japanese, Italian, Spanish and Indian) at the walking distance from Conference venue. Curry Mile in Rusholme alone is host nearly 50 restaurants serving Indian, Pakistani and Persian foods. There is also a number of vegetarian and vegan cafes and cooperative stores.