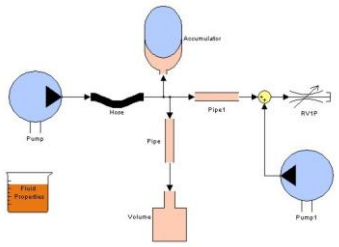
# The Centre for Power Transmission and Motion Control




The Centre for PTMC provides an industrial focus for training, consultancy and research in power transmission and motion control for next-generation machine systems.

## Specialist Short Courses

A range of Continuing Professional Development (CPD) courses is offered:

- Introduction to Hydraulic Circuits and Components
- Component Selection for Hydraulic Systems
- Hydraulic Systems and Efficiency
- Control of Mechatronic & Electro-Hydraulic Systems
- Electrical Drives for Mechanical Engineers
- Piezoelectric Actuation

Courses can also be tailored to an individual customer's needs.
For the latest information see: www.bath.ac.uk/ptmc

# CONSORTIUM MEMBERSHIP

Membership of the PTMC consortium provides the following benefits:

**Full membership: £4500**

- 3 free places on CPD courses (value £4650)
- 25% discount on subsequent course fees
- A free place at the international Symposium on Fluid Power and Motion Control on next occasion held in Bath
- Up to one day's free consultancy
- Free access to occasional research showcases and workshops

Membership will run for one year from the 1st of August with courses commencing each October.

## Consortium Registration Form

Organisation:

Address:

| Contact name: | Tel no.: |
|---|---|
| Email: | |
| ☐ Please invoice me | |

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## The Centre

The Centre for PTMC was founded as the Fluid Power Centre in 1968. It has a world-leading reputation as a centre of excellence in fluid power, power transmission and motion control. Its research activities are funded by government and industry at over £1m per annum. Short courses in hydraulic systems and electrical drives have attracted 5000 delegates, and consultancy projects allow industry to access the Centre's expertise. The Centre's staff comprises a Director, 8 academics, 3 support staff, and 20 researchers.

## The Department

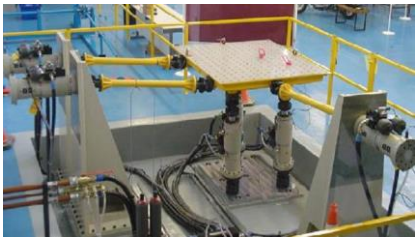
The Centre is part of the Department of Mechanical Engineering. The Department's 900 undergraduate students take 4-year MEng degrees, and most of its 150 postgraduate students are undertaking PhD research projects. With 60 academic staff, and top ratings for teaching and research, it is one of the largest and most successful mechanical engineering departments in the UK.

## Consultancy expertise

Hydraulic system design, & simulation • Hydraulic component testing • Control systems • Electric drives • Contamination control • Fluid-borne noise • Hydraulic and electric power steering • Aircraft fuel systems • Test rig actuation and control • CFD and FE modelling • Wave power

## Facilities

A range of hydraulic drives and test equipment • state-of-the-art 400kg six-axis shaker table • hydraulic test actuators • fluid-borne, structure-borne and air-borne noise test equipment • magnetic bearing test equipment • shakers, modal analysis, and frequency analysis equipment



## Software

The Centre can provide software packages for commercial use:

- **FBN** for measurement of fluid-borne noise characteristics
- **Prasp** – a MATLAB/Simulink® toolbox for modelling fluid-borne noise characteristics of hydraulic systems

as well as undertake projects using **Matlab/Simulink**, **Amesim**, **ANSYS, CFX**.