

2015/16 PROGRAMME: The Pneumatic Tyre – Understanding its Role and Modelling its Performance in Virtual Computer Based Design

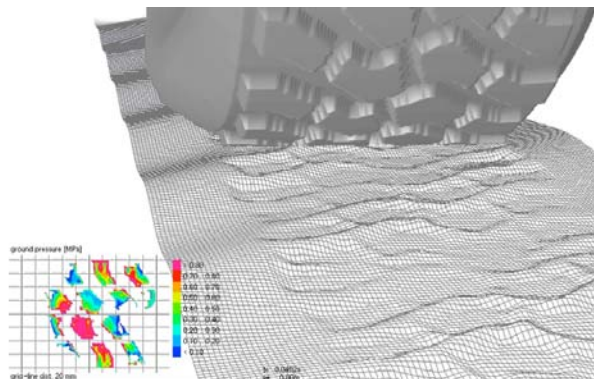
DATE: Wednesday June 15, 2016
TIMING: Light refreshments from 6:30 pm, Lecture 7 pm.
COST: No charge to members or guests
WHERE: Novotel, 3 Park Home Ave, North York M2N 6L3
DIRECTIONS: See map overleaf including parking instructions
REGISTRATION: Please contact Peter Dennis at hon-treasurer@imeche-ccb.org

OUR SPEAKER: Professor Mike Blundell BSc (Hons), MSc, PhD, FIMechE, CEng is Professor of Vehicle Dynamics and Impact at Coventry University and is well known in the fields of vehicle dynamics, tyre modelling and the use of multi-body systems (MBS) software. Prior to joining Coventry University in 1991 he worked for the ship and submarine design department of the Ministry of Defence and for Boeing (Europe). During the 1980s he was an early user of ADAMS working for Tedas Ltd the original distributors of the ADAMS software in Europe. After joining Coventry University he led their research in the vehicle dynamics area with a particular focus on tyre modeling and the efficient use of MBS software. Major projects have included a collaborative EPSRC/Airbus project looking into aircraft tyre modelling and a European 6th



Framework project considering occupant safety in Helicopter crashes. Work has also involved the Niche Vehicle Project, the Low Carbon Vehicle Technology Project and an EPSRC project looking at lightweight vehicle structures. He has recently collaborated with Jaguar Landrover in developing a bespoke course around tyre modelling and tyre test procedures.

HIS PRESENTATION: Covers the technology of the pneumatic tyre, from basic static load bearing function to dynamic suspension and directional control, and looks at some of the factors that influence tyre design for widely differing applications. The presentation also covers the sophisticated test facilities required to characterise tyre performance and the software increasingly used to represent the tyre and vehicle in virtual computer based simulations.





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Location & access

GPS. N 43° 46' 9.07" W 79° 24' 47.03"

Directions

From Pearson Airport, follow Hwy 401 E., exit for Yonge Street N., follow 6 traffic lights then turn left onto Park Home Ave. The hotel and parking garage are on the left. From E. Ontario, Ottawa or Quebec, follow Hwy 401 to Toronto W., exit for Yonge Street N to Park Home Ave. From Niagara Falls, Buffalo, Rochester and the US, follow the QEW to Hwy 427 and head N. to Hwy 401 east, follow the same directions as from the airport.

- **Parking :** Public outdoor parking - Public indoor parking (paying) - Private indoor parking (paying)
- **Airport :** PEARSON INTL AIRPORT
- **Railway Station :** VIA/UNION STATION
- **Underground station :**

Line	Station
YONGE	NORTH YORK CENTR

- **Bus :**

Line	Station
YONGE	NORTH YORK CENTR